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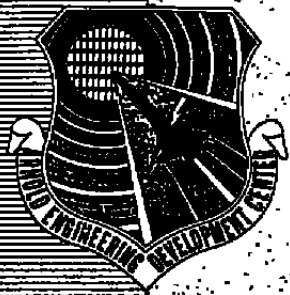
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PLANE, CYLINDRICAL, AND SPHERICAL BLAST WAVES BASED UPON OSHIMA'S QUASI-SIMILARITY MODEL

By

Clark H. Lewis

Von Kármán Gas Dynamics Facility
ARO, INC.

December 1961

ARNOLD ENGINEERING DEVELOPMENT CENTER
AIR FORCE SYSTEMS COMMAND
UNITED STATES AIR FORCE



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PLANE, CYLINDRICAL, AND SPHERICAL
BLAST WAVES BASED UPON
ŌSHIMA'S QUASI-SIMILARITY MODEL

By

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ARO, INC.,
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December 1961

OAR Program Area 806A, Project 8951, Task 89103
ARO Project No. 300149

Contract No. AF 40(600)-800 S/A 24(61-73)

ABSTRACT

Numerical solutions are given for plane, cylindrical, and spherical blast waves in air based upon Ōshima's quasi-similarity model (University of Tokyo, Report No. 358, July 1960, pp. 137-193). New solutions are given for plane and spherical waves in addition to the cylindrical solutions given previously by Ōshima. The results for cylindrical flow do not agree with Ōshima's results near the core of the explosion. These differences are discussed, and the precision of the present numerical solution is given. The results provide new data for investigating blast waves or the blast-hypersonic analogy.

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NOMENCLATURE

a	"Decay coefficient" (see Eq. (16))
b_i	Coefficients in $J(M)$, Eqs. (25) and (26)
c	Speed of sound
E	Energy of the blast wave (see Eq. (20))
f	$= u/U$, dimensionless velocity
g	$= (1/M^2)(p/p_0)$, dimensionless pressure
h	$= \rho/\rho_0$, dimensionless density
J	$= \int_a^1 \left((\gamma/2) h f^2 + g/(\gamma-1) \right) x^\sigma dx$
M	Shock Mach number
p	Pressure
R	Radial distance from shock wave to center of explosion
R_0	$= \left(E/(\pi^\delta 2^\sigma p_0) \right)^{1/\sigma+1}$
r	Radial or normal coordinate
t	Time
U	Shock velocity
u	Velocity
x	r/R
a	Blast core diameter
a'	$= a/R$, dimensionless core diameter
γ	Ratio of specific heats
δ	Index which is zero when $\sigma = 0$ and which is unity when $\sigma \neq 0$
ρ	Density
σ	Index indicating one-dimensional flow ($\sigma = 0$), flow ($\sigma = 1$), or spherical flow ($\sigma = 2$) cylindrical

SUBSCRIPTS

- Undisturbed free-stream condition
- R Condition at the shock

SUPERSCRIPT

Derivative with respect to x

INTRODUCTION

The solution of the unsteady flow associated with a spherical explosion in a perfect gas was first studied by Taylor (Ref. 1). Later, Lin (Ref. 2) considered the shock waves produced by a cylindrical blast. Sakurai (Refs. 3 and 4) extended the Taylor solution to include cylindrical and plane blasts by a series expansion of the flow quantities in terms of even inverse powers of the shock Mach number. Results for the first approximation (neglecting all terms of order equal to or greater than 2 in shock Mach number) are given in Ref. 3, and the second approximation (retaining terms up to second order in shock Mach number) are given in Ref. 4. Certain difficulties are encountered in these solutions where the shock Mach number can no longer be considered large (say when $M \leq 3$). For such conditions large errors occur in the distributions of pressure and density within the disturbed region.

Recently, Ōshima (Ref. 5) developed a new approach to the unsteady blast problem in which the flow within a cylindrical shock created by a blast is assumed to be similar near the shock wave, i. e., the partial derivatives of the normalized flow quantities (velocity, pressure, and density) with respect to the shock Mach number are constant. This assumption allows one to reduce the partial differential equations describing the flow to total differential equations in terms of one space variable and a parameter.

This paper extends Ōshima's "quasi-similarity" model to cases of plane and spherical flows and corrects some numerical errors in Ōshima's original calculation of cylindrical flow.¹ In recent private communications (Ref. 6), Ōshima indicated that the solution of the spherical case had been obtained and published in a Japanese language report.

For completeness, Ōshima's equations for one-, two-, and three-dimensional flows are presented in the following section.

Manuscript released by author November 1961.

¹The author wishes to express his appreciation to Messrs. G. H. Sheraden and C. A. Neel of Scientific Computing Services, Office of the Director of Engineering, ARO, Inc. for preparation of the machine program.

QUASI-SIMILAR FLOW EQUATIONS IN ONE, TWO, AND THREE DIMENSIONS

The continuity, momentum, and energy equations for a non-viscous, non-heat conducting perfect gas are

$$\frac{\partial u}{\partial t} + u \frac{\partial u}{\partial r} = - \frac{1}{\rho} \frac{\partial p}{\partial r} \quad (1)$$

$$\frac{\partial \rho}{\partial t} + u \frac{\partial \rho}{\partial r} + \rho \left[\frac{\partial u}{\partial r} + \frac{\sigma u}{r} \right] = 0 \quad (2)$$

$$\frac{\partial}{\partial t} (p \rho^{-\gamma}) + u \frac{\partial}{\partial r} (p \rho^{-\gamma}) = 0 \quad (3)$$

where u , p , and ρ are the velocity, pressure, and density, r is the distance from the center, t is the time, γ the ratio of specific heats, and σ is an index indicating one-dimensional ($\sigma = 0$) two-dimensional ($\sigma = 1$), or the three-dimensional ($\sigma = 2$) flow. The boundary conditions on Eqs. (1), (2), and (3) are

$$u(R) = \frac{2}{\gamma+1} \frac{U^2 - c_o^2}{U} = \frac{2}{\gamma+1} U \left[1 - \left(\frac{c_o}{U} \right)^2 \right] \quad (4)$$

$$\frac{p}{p_o}(R) = \frac{2\gamma}{\gamma+1} \frac{U^2}{c_o^2} - \frac{\gamma-1}{\gamma+1} \quad (5)$$

$$\frac{\rho}{\rho_o}(R) = \frac{\frac{\gamma+1}{\gamma-1}}{1 + \frac{2}{\gamma-1} \frac{c_o^2}{U^2}} \quad (6)$$

where c_o is the speed of sound of the undisturbed gas, U the shock velocity, and $r = R$ at the shock. Making the substitutions

$$U = \frac{dR}{dt} \quad \text{and} \quad M = \frac{U}{c_o} \quad (7)$$

the transformation of variables

$$f = \frac{u}{U}, \quad g = \frac{1}{M^2} \frac{p}{p_o}, \quad h = \frac{\rho}{\rho_o} \quad (8)$$

and

$$x = \frac{r}{R}, \quad R = \int_{t(R=0)}^{t(R=R)} U dt \quad (9)$$

Eqs. (1), (2), and (3) become

$$R \frac{\partial f}{\partial R} + (f - x) \frac{\partial f}{\partial x} + \frac{R}{U} \frac{dU}{dR} f = - \frac{1}{\gamma h} \frac{\partial g}{\partial x} \quad (10)$$

$$R \frac{\partial h}{\partial R} + (f - x) \frac{\partial h}{\partial x} = -h \left[\frac{\partial f}{\partial x} + \frac{\sigma f}{x} \right] \quad (11)$$

$$R \frac{\partial g}{\partial R} + (f - x) \frac{\partial g}{\partial x} + 2 \frac{R}{U} \frac{dU}{dR} g = -\gamma g \left[\frac{\partial f}{\partial x} + \frac{\sigma f}{x} \right] \quad (12)$$

Introduce now the quasi-similar assumption

$$\frac{\frac{\partial h}{\partial M}}{h} = \frac{\left(\frac{\partial h}{\partial M} \right)_{x=1}}{h(1)} = \frac{\frac{4}{\gamma-1} \frac{1}{M^3}}{1 + \frac{2}{\gamma-1} \frac{1}{M^2}} \quad (13)$$

$$\frac{\frac{\partial f}{\partial M}}{f} = \frac{\left(\frac{\partial f}{\partial M} \right)_{x=1}}{f(1)} = \frac{\frac{2}{M^3}}{1 - \frac{1}{M^2}} \quad (14)$$

$$\frac{\frac{\partial g}{\partial M}}{g} = \frac{\left(\frac{\partial g}{\partial M} \right)_{x=1}}{g(1)} = \frac{\frac{2(\gamma-1)}{M^3}}{2\gamma - \frac{\gamma-1}{M^2}} \quad (15)$$

and the assumption (see Ref. 5, p. 143) that

$$\frac{R}{U} \frac{dU}{dR} = \underline{a} = \text{constant} \quad (16)$$

When Eqs. (13) through (16) are substituted into Eqs. (10) through (12) the result becomes

$$(f - x) \frac{df}{dx} + \frac{1}{\gamma h} \frac{dg}{dx} = - \left[1 + \left(\frac{2}{M^2} \right) / \left(1 - \frac{1}{M^2} \right) \right] \underline{a} f \quad (17)$$

$$h \frac{df}{dx} + (f - x) \frac{dh}{dx} = - \frac{\sigma h f}{x} - \left[\left(\frac{4}{\gamma-1} \frac{1}{M^2} \right) / \left(1 + \frac{2}{\gamma-1} \frac{1}{M^2} \right) \right] \underline{a} h \quad (18)$$

$$\gamma g \frac{df}{dx} + (f - x) \frac{dg}{dx} = - \frac{\sigma \gamma g f}{x} - \left[2 + \frac{2(\gamma-1)(1/M^2)}{2\gamma - (\gamma-1)(1/M^2)} \right] \underline{a} g \quad (19)$$

satisfying the boundary conditions

$$f(1) = \left(\frac{u}{U} \right)_R = \frac{2}{\gamma + 1} \left(1 - \frac{1}{M^2} \right)$$

$$g(1) = \frac{1}{M^2} \left(\frac{p}{p_o} \right)_R = \frac{2\gamma}{\gamma + 1} - \left(\frac{\gamma - 1}{\gamma + 1} \right) \frac{1}{M^2}$$

$$h(1) = \left(\frac{\rho}{\rho_o} \right)_R = \frac{(\gamma + 1) / (\gamma - 1)}{1 + \left(\frac{2}{\gamma - 1} \right) \frac{1}{M^2}}$$

The total energy of the blast wave (per unit area when $\sigma = 0$ and per unit length when $\sigma = 1$) is

$$E = \int_a^R \frac{1}{2} \rho u^2 \pi^\delta (2r)^\sigma dr + \int_a^R \frac{p - p_o}{\gamma - 1} \pi^\delta (2r)^\sigma dr \quad (20)$$

$$= \pi^\delta 2^\sigma R^{\sigma+1} p_o \left(M^2 J - \frac{1 - \alpha'^{\sigma+1}}{(\gamma - 1)(\sigma + 1)} \right) \quad (21)$$

where

$$J = \int_{\alpha'}^1 \left(\frac{\gamma}{2} h f^2 + \frac{g}{\gamma - 1} \right) x^\sigma dx \quad (22)$$

a is the core diameter, $\alpha' = a/R$, and $\delta = 0$ when $\sigma = 0$ and $\delta = 1$ when $\sigma \neq 0$. Define now a characteristic length R_o as $R_o^{\sigma+1} = \frac{E}{\pi^\delta 2^\sigma p_o}$; then Eq. (21) becomes

$$\left(\frac{R_o}{R} \right)^{\sigma+1} = M^2 J - K(\alpha', \sigma) \quad (23)$$

where $K(\alpha', \sigma) = \frac{1 - \alpha'^{\sigma+1}}{(\gamma - 1)(\sigma + 1)}$

For a constant total energy wave, $\frac{dE}{dR} = 0$, then Eq. (16) can be expressed as

$$\begin{aligned} \frac{a}{R} &= - \frac{\sigma + 1}{2} - \frac{R}{2J} \frac{dJ}{dR} + \frac{1}{2M^2 J} \frac{1 - \alpha'^{\sigma+1}}{(\gamma - 1)} \\ &= - \frac{\sigma + 1}{2} - \frac{1}{2J} \left[\frac{4(1/M^2)}{1 - (1/M^2)} - \frac{[4/(\gamma - 1)](1/M^2)}{1 + [2/(\gamma - 1)](1/M^2)} \right] \frac{a}{R} \int_{\alpha'}^1 \frac{\gamma}{2} h f^2 x^\sigma dx \\ &\quad + \left[\frac{2(\gamma - 1)(1/M^2)}{2\gamma - (\gamma - 1)(1/M^2)} \right] \frac{a}{R} \int_{\alpha'}^1 \frac{g x^\sigma}{\gamma - 1} dx - \frac{1}{M^2} \frac{1 - \alpha'^{\sigma+1}}{(\gamma - 1)} \alpha' \end{aligned} \quad (24)$$

Except for the factor $(\gamma - 1)$ omitted in the integral on g in Ref. 2, Eq. (24) reduces to Ōshima's Eq. (3-10), Ref. 5, for $\sigma = 1$. However, this equation was not necessary to the numerical solution method presented here.

NUMERICAL SOLUTIONS

Equations (17) through (19) were programmed for an IBM 7070 digital computer as x ranged over the values from 1.0 to 0.02 for M between 1.1 and infinity. Runge-Kutta iterative solutions were obtained by considering a to be a parameter which was assigned different values until the system (Eqs. (17) through (19)) was satisfied for all x in the range from 0.02 to 1.0 with $f > 0$ and $f', g',$ and $h' \geq 0$. The step size was kept constant throughout the integration interval, but the effect of step size was investigated, as is discussed more fully below.

Perhaps a comment is in order on the choice of the numerical solution procedure. Ōshima included Eq. (24) for a into the system of equations to be solved. This reduced the system to four coupled equations in four unknowns: $f, g, h,$ and a . However, such a procedure requires some knowledge about $a' = \frac{a}{R} = \frac{\text{core diameter}}{\text{shock radius}}$, which is the lower limit of integration appearing in a . To be sure, the numerical solutions presented here are not without error, but for a weak wave ($M \leq 2$) the core diameter may no longer be neglected without some error. The values of J given here assume an $a' = 0.02$ for all Mach numbers, and this assumption affects only J .

RESULTS AND DISCUSSION

The results of the machine calculations for $\gamma = 1.4$ are given in Tables 1 through 4. The "decay coefficient," a , for plane, cylindrical, and spherical blast waves is given in Fig. 1. Also shown are Ōshima's results and Sakurai's first and second approximations. The difference between the present results and Ōshima's was investigated for $M = 2$, which is the maximum Mach number given in Ref. 5. These differences are more apparent when a comparison between the solutions for g at $M = 2$ is made (Fig. 2). The present results and Ōshima's results agree well for $0.85 < x < 1.0$, but for smaller values of x the differences become large; however, the quasi-similarity model should not be expected to remain uniformly valid throughout $0 \leq x \leq 1$. It should be noted that Ōshima did not carry his numerical computations to completion, but

rather bounds on \underline{a} were given between which a solution value for \underline{a} was estimated. Note the rather good agreement in f for the present solution and in Sakurai's second approximation. Plots of the normalized pressure (P/P_R), density (ρ/ρ_R), and velocity (u/u_R) as a function of x are given in Figs. 3 through 5. The function $J(M)$ was computed and is shown plotted in Fig. 6. If a' (the non-dimensionalized core diameter) is assumed to be constant (say equal to 0.02), then Eq. (23) can be evaluated at least by approximate numerical methods. It was found that $J(M)$ could be expressed in the form

$$J = b_0 + b_1 \left(\frac{1}{M} \right) + b_2 \left(\frac{1}{M} \right)^2 \quad (25)$$

within ± 1 percent if the point $M = \infty$ is neglected.

Substituting Eq. (25) into Eq. (23) yields

$$M = \frac{-b_1 + \sqrt{b_1^2 - 4b_0[b_2 - K - (R_0/R)^{\sigma+1}]}}{2b_0} \quad (26)$$

and integrating Eq. (23) gives

$$\frac{c_0 t}{R_0} = \int_0^{R/R_0} \frac{1}{M} d(R/R_0) \quad (27)$$

The propagation of quasi-similar blast waves is shown in Fig. 7 where the second approximation results of Sakurai are also given.

PRECISION OF RESULTS

A numerical check of the machine calculations was made for the $M = 2$ cylindrical solution. For a solution value of \underline{a} , the results were found to satisfy Eqs. (17) through (19) at $x = 0.100$ within 1 in 10^5 . That is, the solution obtained satisfied the original equations and the tests on f , and the derivatives of f , g , and h for all values of x . The solution was substituted into Eq. (24), and the values for \underline{a} were found to agree within 5 in 10^4 where Eq. (24) was evaluated by trapezoidal rule with a $\Delta x = 0.01$ (the step size in Eqs. (17) through (19) was also $\Delta x = 0.01$). A variation in step size in Eqs. (17) through (19) from $\Delta x = 0.01$ to $\Delta x = 0.005$ produced a change in \underline{a} of only 5 in 10^4 . For this specific case, \underline{a} satisfied all tests within 4 in 10^4 .

In a private communication (Ref. 6) Ōshima indicated that errors in the numerical solution given in Ref. 5 had been found because of the

limited capacity of the machine used. However, as he also noted, the main results (conditions near the shock wave) were not affected.

For the plane wave, the solution value for a at $M = \infty$ is exactly -0.5 . An examination of the results in Table 1 shows that the value obtained in the present numerical solution ($M = 10^5$) was -0.5001563 and this was obtained with $\Delta x = 0.0005$. It was found that with $\Delta x = 0.02$ the value was $a = -0.50625$. This dependence on step size was not as strong in the cylindrical case since with a $\Delta x = 0.01$ the numerical solution value for $M = 10^5$ was -1.000084 compared with the correct value of exactly minus one for $M = \infty$.

Similar conditions occurred in the solutions of the spherical case. It was found that for $M = \infty$, 10, and 7 it was necessary to use $\Delta x = 0.005$, for $M = 5$ a $\Delta x = 0.01$, and for $M \leq 4$ a $\Delta x = 0.02$ was used. The value of $h'(1)$ influenced the step size necessary for satisfying the conditions imposed on i and f' , g' , h' . For $M \geq 7$ [$h'(1) \sim 10^3$] a step size of 0.005 was necessary, whereas for $M \leq 2$ [$h'(1) \leq 10$] a step size of 0.02 was adequate.

CONCLUDING REMARKS

Solutions have been obtained for plane, cylindrical, and spherical blast waves in an ideal gas ($\gamma = 1.4$) based upon the quasi-similarity model of Ōshima. The results for the cylindrical case do not agree with the previously published results of Ōshima; the differences are large for the pressure near the core of the wave. New solutions for plane and spherical blast waves are given for the quasi-similarity model. The accuracy of the numerical solutions is discussed, and some comparisons with Ōshima's results are given.

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TABLE 1

DECAY COEFFICIENT AND J FOR PLANE, CYLINDRICAL, AND SPHERICAL BLAST WAVES IN AIR

M	α				J		
	$\sigma = 0$	$\sigma = 1$	$\sigma = 1^*$	$\sigma = 2$	$\sigma = 0$	$\sigma = 1$	$\sigma = 2$
1.1	0.03353125	0.07610938	0.074	0.1200470	2.238143	1.132133	0.7594309
1.2	0.07234375	0.1530518	0.148	0.2360831	2.067214	1.053687	0.7089517
1.4	0.1398438	0.2840527	0.277	0.4298776	1.856487	0.9523104	0.6439443
1.6	0.1925000	0.3854688	0.37	0.5783912	1.734176	0.8922118	0.6061182
1.8	0.2351563	0.4649492		0.6947503	1.649026	0.8555259	0.5831361
2.0	0.2681563	0.5291409	0.495	0.7890167	1.602495	0.8325405	0.5686623
2.4	0.31875	0.6274531		0.9346344	1.551781	0.8094217	0.5532905
3.0	0.3696875	0.7292188		1.087176	1.535174	0.8010613	0.5465660
3.5	0.3984375	0.7877883		1.175969	1.542516	0.8043746	0.5477476
4.0	0.4200000	0.8307227		1.241275	1.552424	0.8108064	0.5514460
5.0	0.4459375	0.8867132		1.326725	1.586076	0.8251951	0.5585792
7.0	0.4721875	0.9403980		1.408693	1.624687	0.8461239	0.5713443
10.0	0.4858594	0.9704509		1.454676	1.656931	0.8598556	0.5818645
∞	0.5001563	1.000084		1.500001	1.6968436	0.8775978	0.5928437
∞	0.5000000**	1.000000**		1.500000**	1.696**	0.877**	0.596**

*Oshima's estimated value (Ref. 5)

**Sakurai's first approximation (Ref. 3)

TABLE 2
PLANE (ONE-DIMENSIONAL) BLAST WAVES IN AIR

M = 1.1						
x	z	r	h	P/P _R	u/u _R	v/v _R
1.000000+00	1.028926+00	1.446279-01	1.149002+00	1.000000+00	1.000000+00	1.000000+00
9.800000-01	1.011165+00	1.329527-01	1.184623+00	9.827365-01	9.192741-01	9.876323-01
9.600000-01	9.956191-01	1.225433-01	1.141007+00	9.676299-01	8.479010-01	9.767553-01
9.400000-01	9.820826-01	1.139189-01	1.130787+00	9.544739-01	7.839208-01	9.672434-01
9.200000-01	9.703135-01	1.051629-01	1.121082+00	9.430357-01	7.271271-01	9.589421-01
9.000000-01	9.600670-01	9.794459-02	1.112604+00	9.330773-01	6.772179-01	9.516903-01
8.800000-01	9.511193-01	9.153564-02	1.105175+00	9.243772-01	6.329046-01	9.453958-01
8.600000-01	9.432577-01	8.561844-02	1.098636+00	9.167403-01	5.933741-01	9.397430-01
8.400000-01	9.363234-01	8.069007-02	1.092852+00	9.100011-01	5.579150-01	9.347952-01
8.200000-01	9.301695-01	7.606277-02	1.087708+00	9.040203-01	5.259205-01	9.303947-01
8.000000-01	9.246782-01	7.186279-02	1.083107+00	8.986833-01	4.968806-01	9.264598-01
7.800000-01	9.197521-01	6.807857-02	1.078973+00	8.938937-01	4.703697-01	9.229234-01
7.600000-01	9.153112-01	6.450885-02	1.075239+00	8.895797-01	4.460334-01	9.197297-01
7.400000-01	9.112896-01	6.126093-02	1.071852+00	8.856711-01	4.235762-01	9.168327-01
7.200000-01	9.076325-01	5.824909-02	1.068768+00	8.821168-01	4.027515-01	9.141942-01
7.000000-01	9.042942-01	5.544337-02	1.065948+00	8.788724-01	3.833519-01	9.117821-01
6.800000-01	9.012367-01	5.281851-02	1.063362+00	8.759009-01	3.652078-01	9.095698-01
6.600000-01	8.984279-01	5.035308-02	1.060982+00	8.731710-01	3.481561-01	9.075545-01
6.400000-01	8.958404-01	4.802881-02	1.058787+00	8.706562-01	3.320854-01	9.056572-01
6.200000-01	8.934512-01	4.583006-02	1.056758+00	8.683342-01	3.168826-01	9.039212-01
6.000000-01	8.912404-01	4.374334-02	1.054877+00	8.661856-01	3.027544-01	9.023127-01
5.800000-01	8.891910-01	4.175697-02	1.053132+00	8.641938-01	2.887201-01	9.008194-01
5.600000-01	8.872882-01	3.986077-02	1.051509+00	8.623445-01	2.756092-01	8.994312-01
5.400000-01	8.855192-01	3.804504-02	1.049997+00	8.606252-01	2.633060-01	8.981385-01
5.200000-01	8.838729-01	3.630434-02	1.048589+00	8.590251-01	2.510190-01	8.969337-01
5.000000-01	8.823394-01	3.462936-02	1.047275+00	8.575348-01	2.394376-01	8.958097-01
4.800000-01	8.809103-01	3.301474-02	1.046048+00	8.561458-01	2.282737-01	8.947603-01
4.600000-01	8.795778-01	3.145500-02	1.044902+00	8.548508-01	2.174892-01	8.937807-01
4.400000-01	8.783353-01	2.994525-02	1.043832+00	8.536433-01	2.070503-01	8.928645-01
4.200000-01	8.771769-01	2.848106-02	1.042831+00	8.525174-01	1.969265-01	8.920088-01
4.000000-01	8.760973-01	2.705844-02	1.041897+00	8.514682-01	1.870901-01	8.912095-01
3.800000-01	8.750918-01	2.567378-02	1.041024+00	8.504909-01	1.775162-01	8.904630-01
3.600000-01	8.741562-01	2.432379-02	1.040209+00	8.495815-01	1.681819-01	8.897661-01
3.400000-01	8.732867-01	2.300546-02	1.039450+00	8.487365-01	1.590666-01	8.891164-01
3.200000-01	8.724800-01	2.171601-02	1.038742+00	8.479525-01	1.501509-01	8.885111-01
3.000000-01	8.717331-01	2.045241-02	1.038084+00	8.472266-01	1.414175-01	8.879479-01
2.800000-01	8.710437-01	1.921379-02	1.037472+00	8.465562-01	1.328498-01	8.874248-01
2.600000-01	8.704087-01	1.799646-02	1.036905+00	8.459390-01	1.244329-01	8.869400-01
2.400000-01	8.698256-01	1.679888-02	1.036381+00	8.453778-01	1.161524-01	8.864914-01
2.200000-01	8.692938-01	1.561913-02	1.035897+00	8.448559-01	1.079953-01	8.860776-01
2.000000-01	8.688109-01	1.445540-02	1.035452+00	8.443866-01	9.994893-02	8.856969-01
1.800000-01	8.683755-01	1.330599-02	1.035044+00	8.439634-01	9.200158-02	8.853475-01
1.600000-01	8.679862-01	1.216978-02	1.034670+00	8.435851-01	8.414207-02	8.850279-01
1.400000-01	8.676419-01	1.104372-02	1.034329+00	8.432505-01	7.635756-02	8.847362-01
1.200000-01	8.673416-01	9.927783-03	1.034018+00	8.429586-01	6.864346-02	8.844700-01
1.000000-01	8.670845-01	8.812017-03	1.033733+00	8.427087-01	6.098333-02	8.842264-01
8.000000-02	8.668697-01	7.719384-03	1.033469+00	8.425001-01	5.337411-02	8.840005-01
6.000000-02	8.666870-01	6.624097-03	1.033216+00	8.423322-01	4.580077-02	8.837841-01
4.000000-02	8.665657-01	5.533001-03	1.032952+00	8.422045-01	3.825681-02	8.835579-01
2.000000-02	8.664754-01	4.444100-03	1.032598+00	8.421167-01	3.073266-02	8.832551-01

TABLE 2 (Continued)

M = 1.2						
x	g	f	h	p/p _R	u/u _R	p/p _R
1.000000+00	1.050926+00	2.546300-01	1.341615+00	1.000000+00	1.000000+00	1.000000+00
9.800000-01	1.027531+00	2.403944-01	1.320129+00	9.777386-01	9.440932-01	9.839844-01
9.600000-01	1.005820+00	2.268658-01	1.300059+00	9.570796-01	8.909627-01	9.690294-01
9.400000-01	9.857487-01	2.140662-01	1.281392+00	9.379812-01	8.406954-01	9.551109-01
9.200000-01	9.672565-01	2.020042-01	1.264091+00	9.203850-01	7.933246-01	9.422156-01
9.000000-01	9.502664-01	1.906747-01	1.248107+00	9.042183-01	7.488304-01	9.303016-01
8.800000-01	9.346902-01	1.800604-01	1.233373+00	8.893969-01	7.071454-01	9.193211-01
8.600000-01	9.204315-01	1.701342-01	1.219822+00	8.758291-01	6.681624-01	9.092190-01
8.400000-01	9.073899-01	1.608611-01	1.207367+00	8.634195-01	6.317447-01	8.999353-01
8.200000-01	8.954648-01	1.522014-01	1.195926+00	8.520723-01	5.977358-01	8.914078-01
8.000000-01	8.845581-01	1.441124-01	1.185418+00	8.416941-01	5.659680-01	8.835749-01
7.800000-01	8.745765-01	1.365506-01	1.175761+00	8.321961-01	5.362706-01	8.763767-01
7.600000-01	8.654327-01	1.294730-01	1.166879+00	8.234955-01	5.084733-01	8.697566-01
7.400000-01	8.570466-01	1.228386-01	1.158702+00	8.155157-01	4.824200-01	8.636617-01
7.200000-01	8.493449-01	1.166083-01	1.151164+00	8.081872-01	4.579519-01	8.580435-01
7.000000-01	8.422618-01	1.107459-01	1.144207+00	8.014474-01	4.349288-01	8.528576-01
6.800000-01	8.357381-01	1.052181-01	1.137776+00	7.952398-01	4.132197-01	8.480639-01
6.600000-01	8.297209-01	9.999438-02	1.131823+00	7.895142-01	3.927047-01	8.436266-01
6.400000-01	8.241631-01	9.504696-02	1.126304+00	7.842257-01	3.732749-01	8.395135-01
6.200000-01	8.190228-01	9.035070-02	1.121182+00	7.793344-01	3.548314-01	8.356955-01
6.000000-01	8.142628-01	8.588287-02	1.116421+00	7.748052-01	3.372850-01	8.321468-01
5.800000-01	8.098502-01	8.162295-02	1.111991+00	7.706064-01	3.205552-01	8.288447-01
5.600000-01	8.057557-01	7.755241-02	1.107864+00	7.667103-01	3.048691-01	8.257684-01
5.400000-01	8.019532-01	7.365454-02	1.104015+00	7.630920-01	2.892611-01	8.228997-01
5.200000-01	7.984195-01	6.991423-02	1.100423+00	7.597295-01	2.745719-01	8.202222-01
5.000000-01	7.951339-01	6.631781-02	1.097067+00	7.566032-01	2.604478-01	8.177212-01
4.800000-01	7.920783-01	6.285292-02	1.093931+00	7.536996-01	2.468403-01	8.153833-01
4.600000-01	7.892360-01	5.950832-02	1.090998+00	7.509911-01	2.337051-01	8.131969-01
4.400000-01	7.865925-01	5.627379-02	1.088253+00	7.484737-01	2.210023-01	8.111512-01
4.200000-01	7.841347-01	5.314003-02	1.085684+00	7.461370-01	2.086951-01	8.092365-01
4.000000-01	7.818507-01	5.009851-02	1.083280+00	7.439637-01	1.967503-01	8.074441-01
3.800000-01	7.797302-01	4.714145-02	1.081028+00	7.419459-01	1.851371-01	8.057661-01
3.600000-01	7.777636-01	4.426168-02	1.078921+00	7.400747-01	1.738275-01	8.041951-01
3.400000-01	7.759425-01	4.145260-02	1.076947+00	7.383418-01	1.627955-01	8.027242-01
3.200000-01	7.742593-01	3.870812-02	1.075100+00	7.367402-01	1.520171-01	8.013475-01
3.000000-01	7.727072-01	3.602256-02	1.073371+00	7.352632-01	1.414703-01	8.000589-01
2.800000-01	7.712800-01	3.339069-02	1.071754+00	7.339052-01	1.311342-01	7.988532-01
2.600000-01	7.699724-01	3.080758-02	1.070240+00	7.326609-01	1.209696-01	7.977246-01
2.400000-01	7.687793-01	2.826863-02	1.068822+00	7.315257-01	1.110185-01	7.966681-01
2.200000-01	7.676964-01	2.576951-02	1.067494+00	7.304953-01	1.012038-01	7.956789-01
2.000000-01	7.667199-01	2.330616-02	1.066249+00	7.295661-01	9.152951-02	7.947497-01
1.800000-01	7.658463-01	2.087468-02	1.065076+00	7.287348-01	8.198046-02	7.938759-01
1.600000-01	7.650726-01	1.847141-02	1.063968+00	7.279986-01	7.254216-02	7.930498-01
1.400000-01	7.643961-01	1.609281-02	1.062911+00	7.273549-01	6.320078-02	7.922622-01
1.200000-01	7.638145-01	1.373591-02	1.061890+00	7.268015-01	5.394304-02	7.915013-01
1.000000-01	7.633260-01	1.139625-02	1.060882+00	7.263366-01	4.475634-02	7.907496-01
8.000000-02	7.629288-01	9.071872-03	1.059848+00	7.259567-01	3.562767-02	7.899791-01
6.000000-02	7.626216-01	6.759289-03	1.058720+00	7.256664-01	2.654554-02	7.891385-01
4.000000-02	7.624035-01	4.455491-03	1.057347+00	7.254588-01	1.749791-02	7.881146-01
2.000000-02	7.622735-01	2.157516-03	1.055248+00	7.253351-01	8.473143-03	7.865501-01

TABLE 2 (Continued)

M = 1.4

x	g	f	h	p/p _R	u/u _R	p/p _R
1.000000+00	1.081633+00	4.081632=01	1.689655+00	1.000000+00	1.000000+00	1.000000+00
9.800000-01	1.050731+00	3.916356=01	1.654216+00	9.714309=01	9.593074=01	9.790261=01
9.600000-01	1.021429+00	3.754773=01	1.620327+00	9.443397=01	9.199195=01	9.589691=01
9.400000-01	9.936901=01	3.597133=01	1.587979+00	9.186946=01	8.812978=01	9.398244=01
9.200000-01	9.674788=01	3.443671=01	1.557161+00	8.944615=01	8.436999=01	9.215850=01
9.000000-01	9.427544=01	3.294594=01	1.527855+00	8.716032=01	8.071757=01	9.042408=01
8.800000-01	9.194735=01	3.150082=01	1.500039+00	8.500794=01	7.717703=01	8.877786=01
8.600000-01	8.975891=01	3.010279=01	1.473686+00	8.298465=01	7.375185=01	8.721818=01
8.400000-01	8.770505=01	2.875288=01	1.448761+00	8.108580=01	7.044457=01	8.574302=01
8.200000-01	8.578039=01	2.745172=01	1.425224+00	7.930641=01	6.725679=01	8.433001=01
8.000000-01	8.397929=01	2.619951=01	1.403030+00	7.764124=01	6.418882=01	8.303649=01
7.800000-01	8.229587=01	2.499605=01	1.382129+00	7.608487=01	6.124032=01	8.179950=01
7.600000-01	8.072411=01	2.384072=01	1.362468+00	7.463179=01	5.840976=01	8.063585=01
7.400000-01	7.925792=01	2.273257=01	1.343988+00	7.327619=01	5.569481=01	7.954218=01
7.200000-01	7.789120=01	2.167036=01	1.326632+00	7.201263=01	5.309239=01	7.851499=01
7.000000-01	7.661795=01	2.065257=01	1.310340+00	7.083547=01	5.059881=01	7.755076=01
6.800000-01	7.543229=01	1.967749=01	1.293052+00	6.973929=01	4.820987=01	7.664592=01
6.600000-01	7.432854=01	1.874327=01	1.280707+00	6.871884=01	4.592102=01	7.579696=01
6.400000-01	7.330126=01	1.784793=01	1.267248+00	6.776909=01	4.372745=01	7.500043=01
6.200000-01	7.234526=01	1.698947=01	1.254619+00	6.688524=01	4.162422=01	7.425299=01
6.000000-01	7.145567=01	1.616584=01	1.242765+00	6.606280=01	3.960632=01	7.353143=01
5.800000-01	7.062791=01	1.537501=01	1.231635+00	6.529750=01	3.766878=01	7.289269=01
5.600000-01	6.985769=01	1.461498=01	1.221179+00	6.458541=01	3.580671=01	7.227388=01
5.400000-01	6.914105=01	1.386380=01	1.211352+00	6.392286=01	3.401992=01	7.169225=01
5.200000-01	6.847430=01	1.317959=01	1.202109+00	6.330643=01	3.229001=01	7.114324=01
5.000000-01	6.785407=01	1.250055=01	1.193410+00	6.273301=01	3.062636=01	7.063042=01
4.800000-01	6.727724=01	1.184495=01	1.185217+00	6.219972=01	2.902014=01	7.014552=01
4.600000-01	6.674096=01	1.121116=01	1.177494+00	6.170390=01	2.746734=01	6.966844=01
4.400000-01	6.624259=01	1.059760=01	1.170207+00	6.124316=01	2.596414=01	6.925716=01
4.200000-01	6.577977=01	1.000283=01	1.163325+00	6.081527=01	2.450693=01	6.884984=01
4.000000-01	6.535031=01	9.425440=02	1.156817+00	6.041822=01	2.309233=01	6.846471=01
3.800000-01	6.495222=01	8.864131=02	1.150656+00	6.005017=01	2.171713=01	6.810009=01
3.600000-01	6.458370=01	8.317665=02	1.144815+00	5.970946=01	2.037828=01	6.775438=01
3.400000-01	6.424310=01	7.784878=02	1.139267+00	5.939437=01	1.907295=01	6.742604=01
3.200000-01	6.392893=01	7.264672=02	1.133988+00	5.910411=01	1.779845=01	6.711358=01
3.000000-01	6.363985=01	6.756011=02	1.128951+00	5.883685=01	1.655223=01	6.681549=01
2.800000-01	6.337463=01	6.257915=02	1.124132+00	5.859164=01	1.533189=01	6.653026=01
2.600000-01	6.313217=01	5.769457=02	1.119503+00	5.836748=01	1.413517=01	6.625632=01
2.400000-01	6.291147=01	5.289757=02	1.115037+00	5.816343=01	1.295991=01	6.599198=01
2.200000-01	6.271163=01	4.817980=02	1.110701+00	5.797868=01	1.180405=01	6.573537=01
2.000000-01	6.253187=01	4.353330=02	1.106460+00	5.781249=01	1.066566=01	6.548438=01
1.800000-01	6.237146=01	3.895044=02	1.102270+00	5.766418=01	9.542860=02	6.523642=01
1.600000-01	6.222977=01	3.442395=02	1.098078+00	5.753319=01	8.433870=02	6.498827=01
1.400000-01	6.210624=01	2.994681=02	1.093810+00	5.741898=01	7.336971=02	6.473568=01
1.200000-01	6.200037=01	2.551227=02	1.089366+00	5.732110=01	6.250508=02	6.447267=01
1.000000-01	6.191173=01	2.111378=02	1.084594+00	5.723915=01	5.172878=02	6.419028=01
8.000000-02	6.183996=01	1.674500=02	1.079248+00	5.717280=01	4.102525=02	6.387385=01
6.000000-02	6.178473=01	1.239972=02	1.072871+00	5.712173=01	3.037932=02	6.349643=01
4.000000-02	6.174575=01	8.071900=03	1.064461+00	5.708570=01	1.977616=02	6.299870=01
2.000000-02	6.172277=01	3.755605=03	1.050912+00	5.706445=01	9.201234=03	6.219682=01

TABLE 2 (Continued)

M = 1.6

x	g	f	h	p/p _R	u/u _R	p/p _R
1.000000+00	1.101582+00	5.078123=01	2.031745+00	1.000000+00	1.000000+00	1.000000+00
9.800000-01	1.084801+00	4.900816=01	1.980124+00	9.866279=01	9.850842=01	9.745928=01
9.600000-01	1.029847+00	4.726060=01	1.893057+00	9.848969=01	9.830670=01	9.502070=01
9.400000-01	9.966487=01	4.554054=01	1.883077+00	9.804759=01	8.967987=01	9.268275=01
9.200000-01	9.631533=01	4.385001=01	1.837589+00	8.761676=01	8.835082=01	9.044385=01
9.000000-01	9.353091=01	4.219098=01	1.794079+00	8.490750=01	8.308381=01	8.830238=01
8.800000-01	9.070644=01	4.056535=01	1.752514+00	8.234345=01	7.988257=01	8.625658=01
8.600000-01	8.803671=01	3.897493=01	1.712855+00	7.991986=01	7.675085=01	8.430461=01
8.400000-01	8.551643=01	3.742135=01	1.675061+00	7.763194=01	7.369130=01	8.244446=01
8.200000-01	8.314025=01	3.590608=01	1.639089+00	7.547485=01	7.070739=01	8.067396=01
8.000000-01	8.090275=01	3.443038=01	1.604892+00	7.344364=01	6.780139=01	7.899079=01
7.800000-01	7.879840=01	3.299524=01	1.572417+00	7.153330=01	6.497527=01	7.739241=01
7.600000-01	7.682160=01	3.160140=01	1.541610+00	6.973876=01	6.223048=01	7.587616=01
7.400000-01	7.496671=01	3.024933=01	1.512414+00	6.805489=01	5.956793=01	7.443917=01
7.200000-01	7.322804=01	2.893919=01	1.484768+00	6.647652=01	5.698795=01	7.307846=01
7.000000-01	7.159990=01	2.767088=01	1.458608+00	6.499849=01	5.449036=01	7.179088=01
6.800000-01	7.007663=01	2.644403=01	1.433868+00	6.361567=01	5.207441=01	7.057323=01
6.600000-01	6.865266=01	2.525802=01	1.410483+00	6.232299=01	4.973889=01	6.942221=01
6.400000-01	6.732250=01	2.411200=01	1.388383+00	6.111547=01	4.748212=01	6.833449=01
6.200000-01	6.608080=01	2.300494=01	1.367501+00	5.998825=01	4.530205=01	6.730673=01
6.000000-01	6.492240=01	2.193561=01	1.347770+00	5.893665=01	4.319630=01	6.633560=01
5.800000-01	6.384232=01	2.090268=01	1.329123+00	5.795615=01	4.116222=01	6.541780=01
5.600000-01	6.283580=01	1.990469=01	1.311494+00	5.704243=01	3.919694=01	6.455011=01
5.400000-01	6.189832=01	1.894010=01	1.294819+00	5.619138=01	3.729743=01	6.372939=01
5.200000-01	6.102559=01	1.800732=01	1.279036+00	5.539912=01	3.546059=01	6.295257=01
5.000000-01	6.021358=01	1.710475=01	1.264085+00	5.466198=01	3.368321=01	6.221669=01
4.800000-01	5.945853=01	1.623074=01	1.249907+00	5.397655=01	3.196209=01	6.151888=01
4.600000-01	5.875691=01	1.538369=01	1.236447+00	5.333961=01	3.029404=01	6.085639=01
4.400000-01	5.810542=01	1.456198=01	1.223650+00	5.274819=01	2.867590=01	6.022654=01
4.200000-01	5.750104=01	1.376404=01	1.211464+00	5.219953=01	2.710457=01	5.962674=01
4.000000-01	5.694093=01	1.298833=01	1.199837+00	5.169108=01	2.557703=01	5.905449=01
3.800000-01	5.642255=01	1.223337=01	1.188719+00	5.122047=01	2.409034=01	5.850730=01
3.600000-01	5.594345=01	1.149771=01	1.178062+00	5.078555=01	2.264186=01	5.798277=01
3.400000-01	5.550148=01	1.077997=01	1.167816+00	5.038432=01	2.122825=01	5.747844=01
3.200000-01	5.509461=01	1.007879=01	1.157929+00	5.001497=01	1.984746=01	5.699186=01
3.000000-01	5.472102=01	9.392890=02	1.148352+00	4.967582=01	1.849677=01	5.652046=01
2.800000-01	5.437904=01	8.721033=02	1.139028+00	4.936537=01	1.717373=01	5.606158=01
2.600000-01	5.406714=01	8.062026=02	1.129900+00	4.908223=01	1.587600=01	5.561228=01
2.400000-01	5.378394=01	7.414726=02	1.120901+00	4.882514=01	1.460131=01	5.516934=01
2.200000-01	5.352819=01	6.778033=02	1.111955+00	4.859297=01	1.334752=01	5.472904=01
2.000000-01	5.329876=01	6.150891=02	1.102972+00	4.838470=01	1.211253=01	5.428694=01
1.800000-01	5.309463=01	5.532280=02	1.093842+00	4.819939=01	1.089434=01	5.383755=01
1.600000-01	5.291488=01	4.921218=02	1.084420+00	4.803621=01	9.691018=02	5.337382=01
1.400000-01	5.275869=01	4.316756=02	1.074513+00	4.789442=01	8.500691=02	5.288621=01
1.200000-01	5.262531=01	3.717973=02	1.063844+00	4.777333=01	7.321549=02	5.236110=01
1.000000-01	5.251407=01	3.123977=02	1.051992+00	4.767233=01	6.151834=02	5.177776=01
8.000000-02	5.242438=01	2.533902=02	1.038257+00	4.759093=01	4.989839=02	5.110175=01
6.000000-02	5.235567=01	1.946904=02	1.021328+00	4.752835=01	3.833904=02	5.026850=01
4.000000-02	5.230739=01	1.362161=02	9.982173=01	4.748472=01	2.682410=02	4.913103=01
2.000000-02	5.227895=01	7.788738=03	9.588779=01	4.745891=01	1.533783=02	4.719479=01

TABLE 2 (Continued)

M = 1.8						
x	g	f	h	p/p _R	u/u _R	p/p _R
1.000000+00	1.115226+00	5.761917-01	2.359224+00	1.000000+00	1.000000+00	1.000000+00
9.800000-01	1.073119+00	5.574681-01	2.288095+00	9.622429-01	9.676033-01	9.498508-01
9.600000-01	1.033141+00	5.390016-01	2.219917+00	9.263959-01	9.355526-01	9.409523-01
9.400000-01	9.952162-01	5.207493-01	2.154615+00	8.923894-01	9.036720-01	9.132729-01
9.200000-01	9.592689-01	5.027292-01	2.092117+00	8.601562-01	8.725942-01	8.867818-01
9.000000-01	9.252263-01	4.849592-01	2.032350+00	8.296310-01	8.417505-01	8.614487-01
8.800000-01	8.930179-01	4.674575-01	1.973244+00	8.007504-01	8.113725-01	8.372434-01
8.600000-01	8.625749-01	4.502419-01	1.920729+00	7.734528-01	7.814912-01	8.141359-01
8.400000-01	8.338298-01	4.333300-01	1.868731+00	7.476777-01	7.521370-01	7.920958-01
8.200000-01	8.067166-01	4.167384-01	1.819180+00	7.233658-01	7.233388-01	7.710926-01
8.000000-01	7.811702-01	4.004828-01	1.772001+00	7.004589-01	6.951237-01	7.510951-01
7.800000-01	7.571261-01	3.845774-01	1.727120+00	6.788990-01	6.675165-01	7.320713-01
7.600000-01	7.343207-01	3.690347-01	1.684459+00	6.586293-01	6.405388-01	7.139888-01
7.400000-01	7.132910-01	3.538654-01	1.643940+00	6.395931-01	6.142091-01	6.968141-01
7.200000-01	6.933746-01	3.390778-01	1.605482+00	6.217344-01	5.885421-01	6.805127-01
7.000000-01	6.747096-01	3.246780-01	1.569001+00	6.049979-01	5.635481-01	6.650496-01
6.800000-01	6.572351-01	3.106697-01	1.534413+00	5.893289-01	5.392338-01	6.503890-01
6.600000-01	6.408910-01	2.970541-01	1.501632+00	5.746735-01	5.156011-01	6.364943-01
6.400000-01	6.256183-01	2.838301-01	1.470572+00	5.609788-01	4.926479-01	6.239287-01
6.200000-01	6.113596-01	2.709940-01	1.441143+00	5.481933-01	4.703682-01	6.108549-01
6.000000-01	5.980587-01	2.585402-01	1.413259+00	5.362666-01	4.487519-01	5.990358-01
5.800000-01	5.856613-01	2.464608-01	1.386833+00	5.251502-01	4.277855-01	5.878343-01
5.600000-01	5.741153-01	2.347464-01	1.361776+00	5.147971-01	4.074526-01	5.772137-01
5.400000-01	5.633705-01	2.233859-01	1.338004+00	5.051625-01	3.877340-01	5.671374-01
5.200000-01	5.533790-01	2.123669-01	1.315432+00	4.962034-01	3.686082-01	5.575698-01
5.000000-01	5.440955-01	2.016760-01	1.293977+00	4.878790-01	3.500519-01	5.484758-01
4.800000-01	5.354770-01	1.912990-01	1.273558+00	4.801510-01	3.320404-01	5.398209-01
4.600000-01	5.274830-01	1.812211-01	1.254096+00	4.729830-01	3.149580-01	5.315716-01
4.400000-01	5.200757-01	1.714271-01	1.235513+00	4.663409-01	2.975484-01	5.236948-01
4.200000-01	5.132195-01	1.619015-01	1.217733+00	4.601932-01	2.810147-01	5.161582-01
4.000000-01	5.068815-01	1.526289-01	1.200679+00	4.545100-01	2.649201-01	5.089298-01
3.800000-01	5.010311-01	1.435937-01	1.184278+00	4.492641-01	2.492376-01	5.019779-01
3.600000-01	4.956398-01	1.347807-01	1.168454+00	4.444298-01	2.339408-01	4.952707-01
3.400000-01	4.906815-01	1.261749-01	1.153132+00	4.399838-01	2.190036-01	4.887760-01
3.200000-01	4.861321-01	1.177615-01	1.138233+00	4.359044-01	2.044003-01	4.824608-01
3.000000-01	4.819693-01	1.095261-01	1.123676+00	4.321718-01	1.901059-01	4.762904-01
2.800000-01	4.781729-01	1.014546-01	1.109373+00	4.287676-01	1.760962-01	4.702280-01
2.600000-01	4.747243-01	9.353355-02	1.093230+00	4.256753-01	1.623475-01	4.644233-01
2.400000-01	4.716065-01	8.574962-02	1.081140+00	4.228796-01	1.488368-01	4.582611-01
2.200000-01	4.688038-01	7.809002-02	1.066981+00	4.203685-01	1.355419-01	4.522595-01
2.000000-01	4.663022-01	7.054234-02	1.052607+00	4.181234-01	1.224413-01	4.461665-01
1.800000-01	4.640888-01	6.309457-02	1.037837+00	4.161386-01	1.095141-01	4.399060-01
1.600000-01	4.621317-01	5.573508-02	1.022441+00	4.144017-01	9.674017-02	4.333803-01
1.400000-01	4.604801-01	4.845259-02	1.006113+00	4.129028-01	8.409985-02	4.264592-01
1.200000-01	4.590641-01	4.123619-02	9.884208-01	4.116332-01	7.157424-02	4.189602-01
1.000000-01	4.578945-01	3.407530-02	9.687237-01	4.105843-01	5.914498-02	4.106113-01
8.000000-02	4.569623-01	2.695966-02	9.459879-01	4.097485-01	4.679427-02	4.009742-01
6.000000-02	4.562588-01	1.987937-02	9.183585-01	4.091177-01	3.450490-02	3.892630-01
4.000000-02	4.557750-01	1.282485-02	8.818993-01	4.086839-01	2.226027-02	3.738091-01
2.000000-02	4.555001-01	5.786931-03	8.251762-01	4.084373-01	1.004446-02	3.497660-01

TABLE 2 (Continued)

M = 2.0						
x	E	f	h	p/p _R	u/u _R	p/p _R
1.000000+00	1.125000+00	6.250001-01	2.666666+00	1.000000+00	1.000000+00	1.000000+00
9.880000-01	1.078324+00	6.057148-01	2.573483+00	9.585106-01	9.691435-01	9.650559-01
9.600000-01	1.034163+00	5.866029-01	2.484518+00	9.192559-01	9.385645-01	9.316939-01
9.400000-01	9.924059-01	5.676802-01	2.399624+00	8.821386-01	9.082882-01	8.998586-01
9.200000-01	9.529486-01	5.489633-01	2.318858+00	8.470634-01	8.789410-01	8.694963-01
9.000000-01	9.156910-01	5.304689-01	2.241482+00	8.139475-01	8.487501-01	8.405553-01
8.800000-01	8.805970-01	5.122144-01	2.167961+00	7.826995-01	8.195429-01	8.129850-01
8.600000-01	8.473945-01	4.942170-01	2.097965+00	7.532395-01	7.907470-01	7.867365-01
8.400000-01	8.161748-01	4.764937-01	2.031365+00	7.254887-01	7.623898-01	7.617836-01
8.200000-01	7.867923-01	4.590614-01	1.968035+00	6.993710-01	7.344981-01	7.380130-01
8.000000-01	7.591642-01	4.419361-01	1.907851+00	6.748126-01	7.070975-01	7.154441-01
7.800000-01	7.332101-01	4.251327-01	1.850690+00	6.517423-01	6.802122-01	6.940086-01
7.600000-01	7.088520-01	4.086652-01	1.796429+00	6.300906-01	6.538642-01	6.736607-01
7.400000-01	6.860137-01	3.923458-01	1.744947+00	6.097900-01	6.280731-01	6.543548-01
7.200000-01	6.646214-01	3.767850-01	1.696121+00	5.907746-01	6.028558-01	6.360451-01
7.000000-01	6.446028-01	3.613913-01	1.649830+00	5.729803-01	5.782260-01	6.186861-01
6.800000-01	6.258876-01	3.463712-01	1.605954+00	5.563446-01	5.541939-01	6.022324-01
6.600000-01	6.084079-01	3.317288-01	1.564370+00	5.408066-01	5.307659-01	5.866386-01
6.400000-01	5.920958-01	3.174658-01	1.524959+00	5.263074-01	5.079452-01	5.718595-01
6.200000-01	5.768883-01	3.035817-01	1.487601+00	5.127896-01	4.857307-01	5.578502-01
6.000000-01	5.627226-01	2.900739-01	1.452177+00	5.001979-01	4.644181-01	5.445663-01
5.800000-01	5.495987-01	2.769973-01	1.418570+00	4.884789-01	4.430997-01	5.319637-01
5.600000-01	5.372791-01	2.641653-01	1.386664+00	4.775814-01	4.226643-01	5.199989-01
5.400000-01	5.258886-01	2.517489-01	1.356345+00	4.674566-01	4.027982-01	5.086293-01
5.200000-01	5.153149-01	2.396782-01	1.327502+00	4.580577-01	3.834850-01	4.978129-01
5.000000-01	5.055082-01	2.279414-01	1.300024+00	4.493406-01	3.647061-01	4.875087-01
4.800000-01	4.964213-01	2.165258-01	1.273804+00	4.412634-01	3.464412-01	4.776763-01
4.600000-01	4.880101-01	2.054178-01	1.248737+00	4.337867-01	3.286683-01	4.682763-01
4.400000-01	4.802329-01	1.946029-01	1.224720+00	4.268737-01	3.113646-01	4.592697-01
4.200000-01	4.730509-01	1.840665-01	1.201649+00	4.204897-01	2.945063-01	4.506183-01
4.000000-01	4.664428-01	1.737932-01	1.179425+00	4.146025-01	2.780690-01	4.422841-01
3.800000-01	4.603300-01	1.637677-01	1.157945+00	4.091822-01	2.620282-01	4.342293-01
3.600000-01	4.547262-01	1.539745-01	1.137109+00	4.042011-01	2.463591-01	4.264157-01
3.400000-01	4.495875-01	1.443982-01	1.116812+00	3.996334-01	2.310371-01	4.188044-01
3.200000-01	4.448873-01	1.350237-01	1.096947+00	3.954554-01	2.160379-01	4.113550-01
3.000000-01	4.406010-01	1.258359-01	1.077401+00	3.916434-01	2.013374-01	4.040252-01
2.800000-01	4.367061-01	1.168201-01	1.058052+00	3.881832-01	1.869122-01	3.967693-01
2.600000-01	4.331816-01	1.079619-01	1.038767+00	3.850503-01	1.727391-01	3.895373-01
2.400000-01	4.300087-01	9.924725-02	1.019394+00	3.822299-01	1.587956-01	3.822727-01
2.200000-01	4.271697-01	9.066239-02	9.997606-01	3.797064-01	1.450598-01	3.749101-01
2.000000-01	4.246486-01	8.219403-02	9.796574-01	3.774654-01	1.315104-01	3.673714-01
1.800000-01	4.224305-01	7.382925-02	9.586268-01	3.754938-01	1.181268-01	3.595599-01
1.600000-01	4.205017-01	6.555551-02	9.369987-01	3.737793-01	1.048888-01	3.513519-01
1.400000-01	4.188494-01	5.736068-02	9.135516-01	3.723106-01	9.177707-02	3.425817-01
1.200000-01	4.174615-01	4.923302-02	8.880450-01	3.710769-01	7.877281-02	3.330168-01
1.000000-01	4.163264-01	4.116119-02	8.594911-01	3.700679-01	6.585789-02	3.223091-01
8.000000-02	4.154327-01	3.313429-02	8.263867-01	3.692735-01	5.301485-02	3.098949-01
6.000000-02	4.147686-01	2.514184-02	7.860006-01	3.686832-01	4.022693-02	2.947501-01
4.000000-02	4.143213-01	1.717388-02	7.323772-01	3.682856-01	2.747819-02	2.746414-01
2.000000-02	4.140752-01	9.221040-03	6.468824-01	3.680669-01	1.475366-02	2.425808-01

TABLE 2 (Continued)

M = 2.4

x	K	f	h	p/p_R	u/u_R	v/v_R
1.000000+00	1.137731+00	6.886574-01	3.211896+00	1.000000+00	1.000000+00	1.000000+00
9.800000-01	1.082911+00	6.683507-01	3.066781+00	9.518163-01	9.704829-01	9.543105-01
9.600000-01	1.031510+00	6.481622-01	2.929825+00	9.066376-01	9.411969-01	9.121794-01
9.400000-01	9.833313-01	6.281686-01	2.800586+00	8.642913-01	9.121647-01	8.719416-01
9.200000-01	9.381904-01	6.083655-01	2.678644+00	8.246150-01	8.834081-01	8.337760-01
9.000000-01	8.959141-01	5.887692-01	2.563505+00	7.874586-01	8.549523-01	7.981574-01
8.800000-01	8.563399-01	5.697967-01	2.455094+00	7.526732-01	8.276871-01	7.643754-01
8.600000-01	8.193146-01	5.507649-01	2.352757+00	7.201301-01	7.990401-01	7.325134-01
8.400000-01	7.846939-01	5.313908-01	2.256257+00	6.897005-01	7.716331-01	7.024654-01
8.200000-01	7.523415-01	5.127913-01	2.165272+00	6.612646-01	7.446747-01	6.741414-01
8.000000-01	7.221287-01	4.944874-01	2.079497+00	6.347093-01	7.180384-01	6.474365-01
7.800000-01	6.939333-01	4.764798-01	1.998643+00	6.099772-01	6.918967-01	6.227626-01
7.600000-01	6.676397-01	4.587977-01	1.922424+00	5.868166-01	6.662205-01	5.984325-01
7.400000-01	6.431377-01	4.414492-01	1.850575+00	5.652808-01	6.410287-01	5.761677-01
7.200000-01	6.203228-01	4.244457-01	1.787835+00	5.452778-01	6.163380-01	5.550725-01
7.000000-01	5.990953-01	4.077969-01	1.718957+00	5.265701-01	5.921622-01	5.351446-01
6.800000-01	5.793603-01	3.913103-01	1.658701+00	5.092242-01	5.685175-01	5.164241-01
6.600000-01	5.610775-01	3.754915-01	1.601834+00	4.931106-01	5.453967-01	4.987172-01
6.400000-01	5.440107-01	3.600434-01	1.548135+00	4.781539-01	5.228194-01	4.827003-01
6.200000-01	5.282782-01	3.448672-01	1.497388+00	4.642820-01	5.007819-01	4.666006-01
6.000000-01	5.136023-01	3.300617-01	1.449385+00	4.514267-01	4.792822-01	4.512553-01
5.800000-01	5.000592-01	3.156220-01	1.403928+00	4.395231-01	4.583150-01	4.371025-01
5.600000-01	4.875794-01	3.015439-01	1.360872+00	4.285101-01	4.378771-01	4.236819-01
5.400000-01	4.759470-01	2.878192-01	1.319884+00	4.183298-01	4.179424-01	4.109360-01
5.200000-01	4.652500-01	2.744385-01	1.280934+00	4.089278-01	3.985124-01	3.988093-01
5.000000-01	4.553804-01	2.613911-01	1.243800+00	4.002430-01	3.795663-01	3.872481-01
4.800000-01	4.462836-01	2.488648-01	1.208318+00	3.922574-01	3.610863-01	3.767078-01
4.600000-01	4.379088-01	2.362461-01	1.174326+00	3.848965-01	3.430537-01	3.656176-01
4.400000-01	4.302085-01	2.241210-01	1.141668+00	3.781284-01	3.254463-01	3.554500-01
4.200000-01	4.231387-01	2.122746-01	1.110195+00	3.719144-01	3.082441-01	3.446500-01
4.000000-01	4.166584-01	2.006915-01	1.079757+00	3.662186-01	2.914247-01	3.336174-01
3.800000-01	4.107298-01	1.893560-01	1.050208+00	3.610077-01	2.749641-01	3.226744-01
3.600000-01	4.053178-01	1.782525-01	1.021402+00	3.562508-01	2.588403-01	3.118059-01
3.400000-01	4.003900-01	1.673640-01	9.931919-01	3.519196-01	2.430306-01	3.009230-01
3.200000-01	3.959166-01	1.566773-01	9.854276-01	3.479878-01	2.275112-01	2.895788-01
3.000000-01	3.918701-01	1.461747-01	9.779523-01	3.444311-01	2.122597-01	2.782745-01
2.800000-01	3.882249-01	1.358403-01	9.706000-01	3.412272-01	1.972537-01	2.673006-01
2.600000-01	3.849577-01	1.256603-01	9.631911-01	3.383555-01	1.824714-01	2.564859-01
2.400000-01	3.820465-01	1.156195-01	9.555264-01	3.357968-01	1.678217-01	2.457984-01
2.200000-01	3.794713-01	1.057037-01	9.473793-01	3.335333-01	1.534924-01	2.352984-01
2.000000-01	3.772131-01	9.589887-02	9.384842-01	3.315485-01	1.392548-01	2.248602-01
1.800000-01	3.752542-01	8.619162-02	9.285201-01	3.298267-01	1.251589-01	2.137273-01
1.600000-01	3.735779-01	7.656898-02	9.170247-01	3.283533-01	1.111859-01	2.024859-01
1.400000-01	3.721679-01	6.701855-02	9.036531-01	3.271140-01	9.731770-02	1.907072-01
1.200000-01	3.710085-01	5.752845-02	8.875068-01	3.260950-01	8.353711-02	1.782733-01
1.000000-01	3.700841-01	4.808739-02	8.697602-01	3.252825-01	6.982775-02	1.653994-01
8.000000-02	3.693786-01	3.868474-02	8.523022-01	3.246674-01	5.617414-02	1.517955-01
6.000000-02	3.688748-01	2.931055-02	8.342195-01	3.242195-01	4.256187-02	1.364618-01
4.000000-02	3.685533-01	1.995770-02	8.160937-01	3.239370-01	2.897769-02	1.193509-01
2.000000-02	3.683908-01	1.061205-02	8.013848-01	3.237942-01	1.540977-02	1.025145-01

TABLE 2 (Continued)

M = 3.0							
x	g	f	h	p/p _R	u/u _R	p'/p _R	
1.000000+00	1.148148+00	7.407407-01	3.857142+00	1.000000+00	1.000000+00	1.000000+00	1.000000+00
9.800000-01	1.083586+00	7.192594-01	3.624156+00	9.437688-01	9.710002-01	9.395962-01	9.395962-01
9.600000-01	1.023949+00	6.979566-01	3.408702+00	8.918269-01	9.422414-01	8.837377-01	8.837377-01
9.400000-01	9.888557-01	6.768493-01	3.209348+00	8.438421-01	9.137465-01	8.320532-01	8.320532-01
9.200000-01	9.179568-01	6.559549-01	3.024788+00	7.995106-01	8.855392-01	7.842043-01	7.842043-01
9.000000-01	8.709339-01	6.352913-01	2.853829+00	7.585554-01	8.576493-01	7.398817-01	7.398817-01
8.800000-01	8.274950-01	6.148763-01	2.699381+00	7.207215-01	8.300831-01	6.988026-01	6.988026-01
8.600000-01	7.873720-01	5.947277-01	2.548444+00	6.857756-01	8.028824-01	6.607078-01	6.607078-01
8.400000-01	7.503186-01	5.748628-01	2.412101+00	6.535034-01	7.760648-01	6.253595-01	6.253595-01
8.200000-01	7.161081-01	5.552984-01	2.289508+00	6.237071-01	7.496528-01	5.925391-01	5.925391-01
8.000000-01	6.845313-01	5.360501-01	2.167888+00	5.962047-01	7.236676-01	5.620452-01	5.620452-01
7.800000-01	6.553950-01	5.171324-01	2.058527+00	5.708279-01	6.981288-01	5.336922-01	5.336922-01
7.600000-01	6.285203-01	4.985583-01	1.956761+00	5.476209-01	6.730337-01	5.073084-01	5.073084-01
7.400000-01	6.037418-01	4.803388-01	1.861978+00	5.258396-01	6.484574-01	4.827351-01	4.827351-01
7.200000-01	5.809057-01	4.624829-01	1.773612+00	5.059501-01	6.243520-01	4.598254-01	4.598254-01
7.000000-01	5.598696-01	4.449975-01	1.691136+00	4.876284-01	6.007467-01	4.384427-01	4.384427-01
6.800000-01	5.405009-01	4.278871-01	1.614062+00	4.707589-01	5.776475-01	4.184606-01	4.184606-01
6.600000-01	5.226767-01	4.111535-01	1.541937+00	4.552346-01	5.550573-01	3.997615-01	3.997615-01
6.400000-01	5.062827-01	3.947966-01	1.474339+00	4.409559-01	5.329754-01	3.822361-01	3.822361-01
6.200000-01	4.912127-01	3.788135-01	1.410877+00	4.278304-01	5.113982-01	3.657829-01	3.657829-01
6.000000-01	4.773683-01	3.631992-01	1.351185+00	4.157724-01	4.903189-01	3.503073-01	3.503073-01
5.800000-01	4.646582-01	3.479465-01	1.294925+00	4.047023-01	4.697278-01	3.357214-01	3.357214-01
5.600000-01	4.529979-01	3.330464-01	1.241782+00	3.945465-01	4.496126-01	3.219436-01	3.219436-01
5.400000-01	4.423091-01	3.184880-01	1.191462+00	3.852370-01	4.299588-01	3.088976-01	3.088976-01
5.200000-01	4.325198-01	3.042591-01	1.143691+00	3.767108-01	4.107498-01	2.965125-01	2.965125-01
5.000000-01	4.235632-01	2.903462-01	1.098213+00	3.689099-01	3.919674-01	2.847219-01	2.847219-01
4.800000-01	4.153779-01	2.767347-01	1.054790+00	3.617807-01	3.735919-01	2.734640-01	2.734640-01
4.600000-01	4.079074-01	2.634093-01	1.013197+00	3.552742-01	3.556026-01	2.626808-01	2.626808-01
4.400000-01	4.010998-01	2.503541-01	9.732251-01	3.493450-01	3.379780-01	2.523177-01	2.523177-01
4.200000-01	3.949071-01	2.375527-01	9.346747-01	3.439514-01	3.208962-01	2.423231-01	2.423231-01
4.000000-01	3.892855-01	2.249887-01	8.973574-01	3.390531-01	3.037348-01	2.326482-01	2.326482-01
3.800000-01	3.841944-01	2.126455-01	8.610930-01	3.346210-01	2.870715-01	2.232484-01	2.232484-01
3.600000-01	3.795969-01	2.005067-01	8.257083-01	3.306167-01	2.706841-01	2.140725-01	2.140725-01
3.400000-01	3.754586-01	1.883559-01	7.910346-01	3.270123-01	2.549505-01	2.050831-01	2.050831-01
3.200000-01	3.717480-01	1.767772-01	7.569062-01	3.237805-01	2.398649-01	1.962350-01	1.962350-01
3.000000-01	3.684359-01	1.651550-01	7.231581-01	3.208958-01	2.229593-01	1.874855-01	1.874855-01
2.800000-01	3.654952-01	1.536741-01	6.896231-01	3.183345-01	2.074601-01	1.787912-01	1.787912-01
2.600000-01	3.629008-01	1.423200-01	6.561291-01	3.160749-01	1.921320-01	1.701076-01	1.701076-01
2.400000-01	3.606290-01	1.310784-01	6.224950-01	3.140962-01	1.769559-01	1.613876-01	1.613876-01
2.200000-01	3.586376-01	1.199360-01	5.885258-01	3.123792-01	1.619136-01	1.525808-01	1.525808-01
2.000000-01	3.569636-01	1.088798-01	5.540068-01	3.109055-01	1.469877-01	1.436312-01	1.436312-01
1.800000-01	3.555328-01	9.789772-02	5.186900-01	3.096576-01	1.321619-01	1.344732-01	1.344732-01
1.600000-01	3.543395-01	8.697826-02	4.822882-01	3.086183-01	1.174207-01	1.250377-01	1.250377-01
1.400000-01	3.5333668-01	7.611065-02	4.444453-01	3.077711-01	1.027494-01	1.152266-01	1.152266-01
1.200000-01	3.525955-01	6.528494-02	4.047048-01	3.070999-01	8.813467-02	1.049235-01	1.049235-01
1.000000-01	3.520064-01	5.449196-02	3.624446-01	3.063868-01	7.356415-02	9.396719-02	9.396719-02
8.000000-02	3.515798-01	4.372344-02	3.167536-01	3.062147-01	5.902464-02	8.212131-02	8.212131-02
6.000000-02	3.512946-01	3.297203-02	2.661540-01	3.059663-01	4.451224-02	6.900290-02	6.900290-02
4.000000-02	3.511282-01	2.223142-02	2.078448-01	3.058214-01	3.001241-02	5.388570-02	5.388570-02
2.000000-02	3.510546-01	1.149646-02	1.346960-01	3.057572-01	1.532022-02	3.492118-02	3.492118-02

TABLE 2 (Continued)

M = 3.5

x	g	f	h	P/P _R	u/u _R	p/p _R
1.000000+00	1.153061+00	7.659062+01	4.260876+00	1.000000+00	1.000000+00	1.000000+00
9.800000-01	1.082301+00	7.481213-01	3.955001+00	9.388328-01	9.710118-01	9.282144-01
9.600000-01	1.017696+00	7.211451-01	3.676707+00	8.826035-01	9.422982-01	8.829004-01
9.400000-01	9.586781-01	6.993954-01	3.423182+00	8.314280-01	9.138780-01	8.033998-01
9.200000-01	9.847401-01	6.778944-01	3.191934+00	7.846419-01	8.857820-01	7.491274-01
9.000000-01	8.554261-01	6.564581-01	2.980746+00	7.418740-01	8.580332-01	6.995626-01
8.800000-01	8.103262-01	6.337062-01	2.787636+00	7.027603-01	8.306561-01	6.542411-01
8.600000-01	7.690712-01	6.150569-01	2.610838+00	6.669821-01	8.036744-01	6.127477-01
8.400000-01	7.315275-01	5.947275-01	2.448767+00	6.342487-01	7.771105-01	5.747105-01
8.200000-01	6.967934-01	5.747397-01	2.300000+00	6.042987-01	7.509854-01	5.397958-01
8.000000-01	6.651951-01	5.550900-01	2.165238+00	5.768948-01	7.253176-01	5.077034-01
7.800000-01	6.362838-01	5.338087-01	2.037390+00	5.518214-01	7.001234-01	4.781629-01
7.600000-01	6.098333-01	5.169001-01	1.921355+00	5.288820-01	6.754161-01	4.509303-01
7.400000-01	5.853373-01	4.983721-01	1.814214+00	5.078978-01	6.512062-01	4.257849-01
7.200000-01	5.635073-01	4.802300-01	1.713116+00	4.887054-01	6.275005-01	4.023271-01
7.000000-01	5.432714-01	4.624766-01	1.623289+00	4.711557-01	6.043028-01	3.809758-01
6.800000-01	5.247722-01	4.451121-01	1.538034+00	4.551122-01	5.816131-01	3.609672-01
6.600000-01	5.078659-01	4.281339-01	1.458718+00	4.404580-01	5.594283-01	3.423521-01
6.400000-01	4.924208-01	4.115372-01	1.384763+00	4.270552-01	5.377419-01	3.249953-01
6.200000-01	4.783167-01	3.953147-01	1.315645+00	4.148233-01	5.165446-01	3.087737-01
6.000000-01	4.654433-01	3.794572-01	1.250887+00	4.036588-01	4.958241-01	2.935754-01
5.800000-01	4.537001-01	3.639535-01	1.190056+00	3.934744-01	4.756559-01	2.792988-01
5.600000-01	4.429950-01	3.487907-01	1.132757+00	3.841904-01	4.557532-01	2.658511-01
5.400000-01	4.332442-01	3.339548-01	1.078630+00	3.757339-01	4.363676-01	2.531478-01
5.200000-01	4.243708-01	3.194306-01	1.027348+00	3.680384-01	4.173892-01	2.411121-01
5.000000-01	4.163049-01	3.052018-01	9.786096-01	3.610432-01	3.987970-01	2.296736-01
4.800000-01	4.089827-01	2.912320-01	9.221425-01	3.546929-01	3.805693-01	2.187681-01
4.600000-01	4.023456-01	2.775641-01	8.876952-01	3.489369-01	3.626837-01	2.083386-01
4.400000-01	3.963406-01	2.641207-01	8.450376-01	3.437290-01	3.451178-01	1.983251-01
4.200000-01	3.909189-01	2.509048-01	8.039974-01	3.390270-01	3.278489-01	1.886839-01
4.000000-01	3.860359-01	2.378991-01	7.642390-01	3.347922-01	3.108548-01	1.793669-01
3.800000-01	3.816509-01	2.250868-01	7.257609-01	3.309892-01	2.941134-01	1.703316-01
3.600000-01	3.777263-01	2.124314-01	6.882938-01	3.275856-01	2.776032-01	1.615383-01
3.400000-01	3.742277-01	1.999769-01	6.516994-01	3.243514-01	2.613031-01	1.529498-01
3.200000-01	3.711231-01	1.876478-01	6.158283-01	3.218590-01	2.451931-01	1.445311-01
3.000000-01	3.683831-01	1.754491-01	5.805386-01	3.194827-01	2.292535-01	1.362488-01
2.800000-01	3.659801-01	1.633667-01	5.456941-01	3.173986-01	2.134658-01	1.280710-01
2.600000-01	3.638883-01	1.513869-01	5.111629-01	3.155846-01	1.978122-01	1.199668-01
2.400000-01	3.620836-01	1.394969-01	4.768151-01	3.140194-01	1.822760-01	1.119056-01
2.200000-01	3.605430-01	1.276847-01	4.429211-01	3.126839-01	1.668413-01	1.038570-01
2.000000-01	3.592444-01	1.159388-01	4.081486-01	3.115571-01	1.514934-01	9.578997-02
1.800000-01	3.581869-01	1.042488-01	3.735596-01	3.106226-01	1.362184-01	8.767215-02
1.600000-01	3.572900-01	9.260493-02	3.386053-01	3.098621-01	1.210038-01	7.946858-02
1.400000-01	3.565935-01	8.099836-02	3.031191-01	3.092581-01	1.058379-01	7.114020-02
1.200000-01	3.560577-01	6.942105-02	2.669062-01	3.087934-01	9.071017-02	6.264124-02
1.000000-01	3.556628-01	5.786587-02	2.297238-01	3.084509-01	7.561140-02	5.391477-02
8.000000-02	3.553887-01	4.632659-02	1.912470-01	3.082132-01	6.059341-02	4.488449-02
6.000000-02	3.552150-01	3.479793-02	1.509934-01	3.080626-01	4.546930-02	3.543722-02
4.000000-02	3.551205-01	2.327560-02	1.081337-01	3.079807-01	3.041945-02	2.537831-02
2.000000-02	3.550827-01	1.175634-02	6.081512-02	3.079478-01	1.536162-02	1.427293-02

TABLE 2 (Continued)

M = 4.0						
x	g	f	h	P/P _R	u/u _R	p/p _R
1.000000+00	1.156250+00	7.812500-01	4.571429+00	1.000000+00	1.000000+00	1.000000+00
9.800000-01	1.080560+00	7.584963-01	4.198117+00	9.345387-01	9.708753-01	9.183380-01
9.600000-01	1.012158+00	7.359822-01	3.863332+00	8.753797-01	9.420572-01	8.451038-01
9.400000-01	9.502789-01	7.137283-01	3.562492+00	8.218628-01	9.135723-01	7.792950-01
9.200000-01	8.942518-01	6.917551-01	3.291620+00	7.734070-01	8.854465-01	7.200419-01
9.000000-01	8.434836-01	6.700825-01	3.047257+00	7.294993-01	8.577056-01	6.665875-01
8.800000-01	7.974499-01	6.487297-01	2.826382+00	6.896864-01	8.303740-01	6.182718-01
8.600000-01	7.556852-01	6.277147-01	2.626350+00	6.535656-01	8.034748-01	5.745140-01
8.400000-01	7.177755-01	6.070539-01	2.444841+00	6.207788-01	7.770290-01	5.348090-01
8.200000-01	6.833513-01	5.867619-01	2.279815+00	5.910063-01	7.510552-01	4.987095-01
8.000000-01	6.520821-01	5.668510-01	2.129470+00	5.639629-01	7.255692-01	4.658215-01
7.800000-01	6.236720-01	5.473309-01	1.992215+00	5.393920-01	7.005835-01	4.357970-01
7.600000-01	5.978549-01	5.282088-01	1.866641+00	5.170637-01	6.761073-01	4.083276-01
7.400000-01	5.743914-01	5.094892-01	1.751496+00	4.967709-01	6.521461-01	3.831997-01
7.200000-01	5.530659-01	4.911733-01	1.645670+00	4.783272-01	6.287018-01	3.599903-01
7.000000-01	5.336838-01	4.732599-01	1.548173+00	4.615644-01	6.057726-01	3.386628-01
6.800000-01	5.160694-01	4.557448-01	1.458124+00	4.463303-01	5.833933-01	3.189646-01
6.600000-01	5.000638-01	4.386213-01	1.374737+00	4.324876-01	5.614393-01	3.007237-01
6.400000-01	4.855234-01	4.218804-01	1.297309+00	4.199121-01	5.400069-01	2.837864-01
6.200000-01	4.723183-01	4.055109-01	1.225215+00	4.084915-01	5.190540-01	2.680157-01
6.000000-01	4.603309-01	3.894999-01	1.157892+00	3.981240-01	4.985599-01	2.532388-01
5.800000-01	4.494549-01	3.738328-01	1.094839+00	3.887177-01	4.785060-01	2.394959-01
5.600000-01	4.395940-01	3.584939-01	1.035606+00	3.801894-01	4.588722-01	2.265389-01
5.400000-01	4.306610-01	3.434664-01	9.797924-01	3.724635-01	4.396370-01	2.143296-01
5.200000-01	4.225789-01	3.287329-01	9.270356-01	3.654719-01	4.207781-01	2.027890-01
5.000000-01	4.152702-01	3.142756-01	8.770119-01	3.591526-01	4.022728-01	1.918483-01
4.800000-01	4.086759-01	3.000765-01	8.294303-01	3.534493-01	3.840979-01	1.814379-01
4.600000-01	4.027352-01	2.861174-01	7.840294-01	3.483115-01	3.662302-01	1.715064-01
4.400000-01	3.973943-01	2.723803-01	7.405739-01	3.436924-01	3.486468-01	1.620005-01
4.200000-01	3.926045-01	2.588478-01	6.988518-01	3.393498-01	3.313251-01	1.528738-01
4.000000-01	3.883212-01	2.453024-01	6.586723-01	3.358453-01	3.142431-01	1.440846-01
3.800000-01	3.845035-01	2.323276-01	6.198633-01	3.323436-01	2.979793-01	1.355951-01
3.600000-01	3.811141-01	2.193071-01	5.822695-01	3.296122-01	2.807131-01	1.275715-01
3.400000-01	3.781185-01	2.064255-01	5.457509-01	3.270214-01	2.642247-01	1.193830-01
3.200000-01	3.754847-01	1.936682-01	5.101812-01	3.247435-01	2.478953-01	1.116021-01
3.000000-01	3.731832-01	1.810210-01	4.754466-01	3.227331-01	2.317069-01	1.040039-01
2.800000-01	3.711864-01	1.684708-01	4.414446-01	3.210261-01	2.156427-01	9.656600-02
2.600000-01	3.694684-01	1.560053-01	4.080833-01	3.195402-01	1.996868-01	8.926826-02
2.400000-01	3.680048-01	1.436128-01	3.752812-01	3.182744-01	1.838244-01	8.209276-02
2.200000-01	3.667724-01	1.312826-01	3.429650-01	3.172086-01	1.680418-01	7.502358-02
2.000000-01	3.657493-01	1.190049-01	3.110707-01	3.163237-01	1.523263-01	6.804672-02
1.800000-01	3.649142-01	1.067707-01	2.795430-01	3.156014-01	1.366665-01	6.115003-02
1.600000-01	3.642468-01	9.457171-02	2.483348-01	3.150242-01	1.210518-01	5.432323-02
1.400000-01	3.637273-01	8.240072-02	2.174078-01	3.145750-01	1.054729-01	4.795795-02
1.200000-01	3.633365-01	7.025125-02	1.867329-01	3.142370-01	8.992160-02	4.084781-02
1.000000-01	3.630556-01	5.811770-02	1.562912-01	3.139940-01	7.439066-02	3.418871-02
8.000000-02	3.628660-01	4.599533-02	1.260767-01	3.138300-01	5.887402-02	2.737928-02
6.000000-02	3.627494-01	3.388025-02	9.610025-02	3.137292-01	4.336671-02	2.102193-02
4.000000-02	3.626880-01	2.176940-02	6.440052-02	3.136781-01	2.786483-02	1.452511-02
2.000000-02	3.626639-01	9.660576-03	3.707466-02	3.136553-01	1.236554-02	8.110082-03

TABLE 2 (Continued)

M = 5.0						
x	g	f	h	p/p _R	u/u _R	P/P _R
1.000000+00	1.160000+00	8.000000=01	4.999999+00	1.000000+00	1.000000+00	1.000000+00
9.800000-01	1.077993+00	7.766087=01	4.518646+00	9.292181-01	9.707610-01	9.037299-01
9.600000-01	1.004848+00	7.535219=01	4.096256+00	8.662487-01	9.419024-01	8.192513-01
9.400000-01	9.397491-01	7.307624=01	3.724842+00	8.101286-01	9.134530-01	7.444645-01
9.200000-01	8.816365-01	7.083520=01	3.395789+00	7.600319-01	8.854401-01	6.791579-01
9.000000-01	8.296857-01	6.863110=01	3.104605+00	7.152464-01	8.578608-01	6.209210-01
8.800000-01	7.831838-01	6.646577=01	2.845721+00	6.751585-01	8.308221-01	5.691442-01
8.600000-01	7.415118-01	6.434077=01	2.614832+00	6.392343-01	8.042597-01	5.229665-01
8.400000-01	7.041304-01	6.225742=01	2.408271+00	6.070090-01	7.782178-01	4.816542-01
8.200000-01	6.705684-01	6.021669=01	2.222897+00	5.780763-01	7.527086-01	4.445795-01
8.000000-01	6.404125-01	5.821923=01	2.056018+00	5.520797-01	7.277404-01	4.112036-01
7.800000-01	6.132990-01	5.626537=01	1.905314+00	5.287061-01	7.039172-01	3.810629-01
7.600000-01	5.889075-01	5.435508=01	1.768785+00	5.076789-01	6.794385-01	3.537570-01
7.400000-01	5.669547-01	5.248799=01	1.644469+00	4.887541-01	6.560998-01	3.289398-01
7.200000-01	5.471899-01	5.066343=01	1.531555+00	4.717154-01	6.332929-01	3.063110-01
7.000000-01	5.293905-01	4.888046=01	1.428049+00	4.563712-01	6.110058-01	2.856098-01
6.800000-01	5.133591-01	4.713786=01	1.333046+00	4.425510-01	5.892233-01	2.666093-01
6.600000-01	4.989199-01	4.543421=01	1.245558+00	4.301034-01	5.679276-01	2.491117-01
6.400000-01	4.859166-01	4.376789=01	1.164722+00	4.188996-01	5.470986-01	2.329443-01
6.200000-01	4.742096-01	4.213714=01	1.089782+00	4.088014=01	5.267143-01	2.179564-01
6.000000-01	4.636746-01	4.054011=01	1.020080+00	3.997195-01	5.067514-01	2.040160-01
5.800000-01	4.534203=01	3.897484=01	9.550375-01	3.915520-01	4.871855-01	1.910075-01
5.600000-01	4.436873-01	3.743935=01	8.941490-01	3.842132-01	4.679919-01	1.788298-01
5.400000-01	4.340464-01	3.593162=01	8.369702-01	3.776263-01	4.491453-01	1.673941-01
5.200000-01	4.241977-01	3.444967=01	7.831119-01	3.717222-01	4.306208-01	1.566224-01
5.000000-01	4.150692-01	3.299149=01	7.322325-01	3.664390-01	4.123937-01	1.464465-01
4.800000-01	4.059560-01	3.155517=01	6.840324=01	3.617207-01	3.944396-01	1.368065-01
4.600000-01	4.017196-01	3.013880=01	6.382493-01	3.573170-01	3.767351-01	1.276499-01
4.400000-01	4.010386=01	2.874060=01	5.946534=01	3.537819-01	3.592575-01	1.189307-01
4.200000-01	4.065497-01	2.735880=01	5.530440=01	3.504739-01	3.419850-01	1.106088-01
4.000000-01	4.031640=01	2.599176=01	5.132467-01	3.475552-01	3.248970-01	1.026494-01
3.800000-01	4.001896=01	2.463790=01	4.751102=01	3.449911-01	3.079738-01	9.502206-02
3.600000-01	3.975896=01	2.329575=01	4.385045=01	3.427497-01	2.911969-01	8.770091-02
3.400000-01	3.953300=01	2.196392=01	4.033186=01	3.408017-01	2.745491-01	8.066378-02
3.200000-01	3.933791=01	2.064113=01	3.694602=01	3.391200-01	2.580141-01	7.389204-02
3.000000-01	3.917079-01	1.932617=01	3.368520=01	3.376792-01	2.415771-01	6.737041-02
2.800000-01	3.902889=01	1.801794=01	3.054334=01	3.364559-01	2.252242-01	6.108668-02
2.600000-01	3.890965=01	1.671543=01	2.751583=01	3.354281-01	2.089428-01	5.503166-02
2.400000-01	3.881069=01	1.541772=01	2.459951=01	3.345749=01	1.927216-01	4.919902-02
2.200000-01	3.872972=01	1.412400=01	2.179267=01	3.338770=01	1.765500=01	4.358535-02
2.000000-01	3.866463=01	1.283351=01	1.909510=01	3.333158=01	1.604189=01	3.819020-02
1.800000-01	3.861337=01	1.154562=01	1.650811=01	3.328799=01	1.443202=01	3.301622-02
1.600000-01	3.857403=01	1.025973=01	1.403478=01	3.325349=01	1.282467=01	2.806955-02
1.400000-01	3.854484=01	8.975387=02	1.168012=01	3.322831=01	1.121923=01	2.336025-02
1.200000-01	3.852403=01	7.692145=02	9.451600=02	3.321038=01	9.615181=02	1.890320-02
1.000000-01	3.851062=01	6.409683=02	7.359796=02	3.319830=01	8.012104=02	1.471959=02
8.000000-02	3.850130=01	5.127725=02	5.419733=02	3.319078=01	6.409657=02	1.083947=02
6.000000-02	3.849647=01	3.846067=02	3.653400=02	3.318661=01	4.807384=02	7.306801=03
4.000000-02	3.849427=01	2.564562=02	2.095420=02	3.318472=01	3.205703=02	4.190841=03
2.000000-02	3.849359=01	1.283118=02	8.096438=03	3.318413=01	1.603897=02	1.619288=03

TABLE 2 (Continued)

M = 7.0						
x	g	f	h	p/p _R	u/u _R	p/p _R
1.000000+00	1.163265+00	8.163265-01	5.444443+00	1.000000+00	1.000000+00	1.000000+00
9.800000-01	1.074343+00	7.922466-01	4.827665+00	9.235583-01	9.705021-01	8.867139-01
9.600000-01	9.966893-01	7.685547-01	4.300117+00	8.568031-01	9.414795-01	7.898174-01
9.400000-01	9.286744-01	7.452751-01	3.846438+00	7.983341-01	9.129620-01	7.064886-01
9.200000-01	8.689440-01	7.224293-01	3.454256+00	7.469869-01	8.849759-01	6.344552-01
9.000000-01	8.163646-01	7.000358-01	3.113539+00	7.017871-01	8.575439-01	5.718746-01
8.800000-01	7.699824-01	6.781091-01	2.816102+00	6.619147-01	8.306837-01	5.172432-01
8.600000-01	7.289899-01	6.566597-01	2.535224+00	6.266753-01	8.044082-01	4.693269-01
8.400000-01	6.927000-01	6.356938-01	2.325359+00	5.954790-01	7.787249-01	4.271067-01
8.200000-01	6.605258-01	6.152131-01	2.121906+00	5.678204-01	7.536361-01	3.897378-01
8.000000-01	6.319631-01	5.952152-01	1.941020+00	5.432666-01	7.291386-01	3.565158-01
7.800000-01	6.065780-01	5.756935-01	1.779523+00	5.214442-01	7.052245-01	3.268516-01
7.600000-01	5.839951-01	5.566377-01	1.634696+00	5.020309-01	6.818812-01	3.002302-01
7.400000-01	5.638890-01	5.380344-01	1.504270+00	4.847467-01	6.590921-01	2.762945-01
7.200000-01	5.459769-01	5.198670-01	1.386329+00	4.693485-01	6.368370-01	2.546918-01
7.000000-01	5.300121-01	5.021169-01	1.279243+00	4.556244-01	6.150932-01	2.349630-01
6.800000-01	5.157792-01	4.847633-01	1.181630+00	4.433892-01	5.938353-01	2.170340-01
6.600000-01	5.030897-01	4.677851-01	1.092308+00	4.324806-01	5.730367-01	2.006280-01
6.400000-01	4.917778-01	4.511587-01	1.010272+00	4.227563-01	5.526695-01	1.855602-01
6.200000-01	4.816980-01	4.348613-01	9.346594-01	4.140913-01	5.327051-01	1.716721-01
6.000000-01	4.727218-01	4.188694-01	8.647314-01	4.063749-01	5.131151-01	1.588282-01
5.800000-01	4.647358-01	4.031599-01	7.998540-01	3.995097-01	4.938709-01	1.469120-01
5.600000-01	4.576392-01	3.877100-01	7.394824-01	3.934097-01	4.749448-01	1.358233-01
5.400000-01	4.513427-01	3.724976-01	6.831480-01	3.879964-01	4.563096-01	1.254762-01
5.200000-01	4.457666-01	3.575014-01	6.304475-01	3.832028-01	4.379392-01	1.157965-01
5.000000-01	4.408395-01	3.427009-01	5.810341-01	3.789672-01	4.198086-01	1.067206-01
4.800000-01	4.364973-01	3.280768-01	5.346095-01	3.752347-01	4.018940-01	9.819358-02
4.600000-01	4.326830-01	3.136107-01	4.909175-01	3.719556-01	3.841731-01	9.016851-02
4.400000-01	4.293442-01	2.992855-01	4.497383-01	3.690853-01	3.666247-01	8.260498-02
4.200000-01	4.264337-01	2.850850-01	4.108842-01	3.665834-01	3.492291-01	7.546853-02
4.000000-01	4.239088-01	2.709944-01	3.741956-01	3.644128-01	3.319681-01	6.872980-02
3.800000-01	4.217303-01	2.569998-01	3.393370-01	3.625401-01	3.148248-01	6.236394-02
3.600000-01	4.198624-01	2.430887-01	3.067950-01	3.609343-01	2.977837-01	5.635009-02
3.400000-01	4.182722-01	2.292494-01	2.758749-01	3.593673-01	2.808305-01	5.067090-02
3.200000-01	4.169295-01	2.154715-01	2.466993-01	3.584131-01	2.639525-01	4.531211-02
3.000000-01	4.158062-01	2.017454-01	2.192058-01	3.574475-01	2.471381-01	4.026229-02
2.800000-01	4.148767-01	1.880626-01	1.933455-01	3.566484-01	2.303767-01	3.551243-02
2.600000-01	4.141170-01	1.744157-01	1.690816-01	3.559953-01	2.136593-01	3.105381-02
2.400000-01	4.135050-01	1.607981-01	1.463885-01	3.554692-01	1.969776-01	2.688768-02
2.200000-01	4.130204-01	1.472038-01	1.252503-01	3.550526-01	1.803246-01	2.300516-02
2.000000-01	4.126443-01	1.336278-01	1.056605-01	3.547293-01	1.636941-01	1.940702-02
1.800000-01	4.123595-01	1.200661-01	8.762105-02	3.544845-01	1.470810-01	1.609366-02
1.600000-01	4.121501-01	1.065149-01	7.114230-02	3.543045-01	1.304808-01	1.306695-02
1.400000-01	4.120018-01	9.297144-02	5.624263-02	3.541770-01	1.138900-01	1.033028-02
1.200000-01	4.119017-01	7.943328-02	4.294893-02	3.540909-01	9.730576-02	7.888579-03
1.000000-01	4.118382-01	6.589862-02	3.129746-02	3.540363-01	8.072581-02	5.748513-03
8.000000-02	4.118013-01	5.236611-02	2.133578-02	3.540046-01	6.414848-02	3.918817-03
6.000000-02	4.117825-01	3.883478-02	1.312649-02	3.539884-01	4.757261-02	2.410988-03
4.000000-02	4.117746-01	2.530401-02	6.759007-03	3.539817-01	3.099742-02	1.240716-03
2.000000-02	4.117724-01	1.177345-02	2.348345-03	3.539798-01	1.442248-02	4.313287-04

TABLE 2 (Continued)

M = 10						
x	g	f	h	P/P _R	u/u _R	P/P _R
1.000000+00	1.165000+00	8.250000-01	5.714286+00	1.000000+00	1.000000+00	1.000000+00
9.800000-01	1.072230+00	8.005970-01	5.005283+00	9.203859-01	9.704206-01	8.759246-01
9.600000-01	9.922285-01	7.766461-01	4.408632+00	8.516983-01	9.413892-01	7.715106-01
9.400000-01	9.229274-01	7.531712-01	3.903037+00	7.922123-01	9.129348-01	6.830314-01
9.200000-01	8.627073-01	7.301921-01	3.471779+00	7.405213-01	8.850814-01	6.075613-01
9.000000-01	8.102211-01	7.077240-01	3.101618+00	6.954687-01	8.578473-01	5.427832-01
8.800000-01	7.643533-01	6.857769-01	2.781987+00	6.560973-01	8.312447-01	4.868476-01
8.600000-01	7.241743-01	6.643553-01	2.504385+00	6.216089-01	8.052792-01	4.382673-01
8.400000-01	6.889045-01	6.434590-01	2.261935+00	5.913343-01	7.799303-01	3.958385-01
8.200000-01	6.578867-01	6.230823-01	2.049034+00	5.647096-01	7.552513-01	3.585809-01
8.000000-01	6.305640-01	6.032151-01	1.861096+00	5.412567-01	7.311698-01	3.256917-01
7.800000-01	6.064627-01	5.838432-01	1.694345+00	5.205689-01	7.076887-01	2.965104-01
7.600000-01	5.851781-01	5.649488-01	1.548661+00	5.022988-01	6.847864-01	2.704906-01
7.400000-01	5.663631-01	5.465111-01	1.412450+00	4.861486-01	6.624377-01	2.471788-01
7.200000-01	5.497192-01	5.285073-01	1.292554+00	4.718620-01	6.406150-01	2.261970-01
7.000000-01	5.349888-01	5.109129-01	1.184166+00	4.592178-01	6.192883-01	2.072290-01
6.800000-01	5.219486-01	4.937021-01	1.085768+00	4.480246-01	5.984268-01	1.900094-01
6.600000-01	5.104051-01	4.768487-01	9.960839-01	4.381160-01	5.779985-01	1.743147-01
6.400000-01	5.001896-01	4.603266-01	9.140364-01	4.293473-01	5.579716-01	1.599564-01
6.200000-01	4.911545-01	4.441095-01	8.387129-01	4.215919-01	5.383145-01	1.467748-01
6.000000-01	4.831708-01	4.281720-01	7.693399-01	4.147389-01	5.189964-01	1.346345-01
5.800000-01	4.761248-01	4.124895-01	7.052596-01	4.086908-01	4.999872-01	1.234204-01
5.600000-01	4.699163-01	3.970382-01	6.459123-01	4.033616-01	4.812384-01	1.130346-01
5.400000-01	4.644564-01	3.817956-01	5.908204-01	3.986750-01	4.627825-01	1.033936-01
5.200000-01	4.596662-01	3.667403-01	5.395766-01	3.945633-01	4.445337-01	9.442590-02
5.000000-01	4.554755-01	3.518524-01	4.918327-01	3.909661-01	4.264878-01	8.607072-02
4.800000-01	4.518211-01	3.371132-01	4.472912-01	3.878293-01	4.086220-01	7.827595-02
4.600000-01	4.486466-01	3.223052-01	4.056978-01	3.851044-01	3.909154-01	7.099711-02
4.400000-01	4.459010-01	3.080125-01	3.668352-01	3.827476-01	3.733484-01	6.419616-02
4.200000-01	4.435380-01	2.936203-01	3.305179-01	3.807193-01	3.559034-01	5.784062-02
4.000000-01	4.415159-01	2.793153-01	2.965873-01	3.789836-01	3.385640-01	5.190277-02
3.800000-01	4.397966-01	2.650852-01	2.649084-01	3.775078-01	3.213154-01	4.635897-02
3.600000-01	4.383455-01	2.509190-01	2.353660-01	3.762622-01	3.041442-01	4.118906-02
3.400000-01	4.371309-01	2.368069-01	2.078622-01	3.752196-01	2.870386-01	3.637588-02
3.200000-01	4.361238-01	2.227400-01	1.823133-01	3.743552-01	2.699879-01	3.190482-02
3.000000-01	4.352978-01	2.087106-01	1.586482-01	3.736462-01	2.529826-01	2.776343-02
2.800000-01	4.346287-01	1.947119-01	1.368060-01	3.730719-01	2.360145-01	2.394105-02
2.600000-01	4.340944-01	1.807380-01	1.167345-01	3.726133-01	2.190763-01	2.042853-02
2.400000-01	4.336749-01	1.667837-01	9.838836-02	3.722531-01	2.021620-01	1.721796-02
2.200000-01	4.333518-01	1.528447-01	8.172794-02	3.719758-01	1.852662-01	1.430239-02
2.000000-01	4.331088-01	1.389173-01	6.671776-02	3.717672-01	1.683846-01	1.167561-02
1.800000-01	4.329310-01	1.249987-01	5.332532-02	3.716146-01	1.515136-01	9.331931-03
1.600000-01	4.328034-01	1.110863-01	4.152000-02	3.715067-01	1.346501-01	7.265999-03
1.400000-01	4.327203-01	9.717827-02	3.127180-02	3.714337-01	1.177918-01	5.472565-03
1.200000-01	4.326657-01	8.327312-02	2.255021-02	3.713869-01	1.009371-01	3.946286-03
1.000000-01	4.326333-01	6.936974-02	1.532280-02	3.713590-01	8.408453-02	2.681490-03
8.000000-02	4.326158-01	5.546738-02	9.553615-03	3.713440-01	6.723318-02	1.671883-03
6.000000-02	4.326078-01	4.156553-02	5.200750-03	3.713371-01	5.038246-02	9.101312-04
4.000000-02	4.326049-01	2.766390-02	2.212442-03	3.713346-01	3.353200-02	3.871773-04
2.000000-02	4.326042-01	1.376233-02	5.186630-04	3.713341-01	1.668161-02	9.076602-05

TABLE 2 (Concluded)

M = ∞						
x	g	f	h	p/p _R	u/u _R	p/p _R
1.000000+00	1.166667+00	8.333333-01	6.000000+00	1.000000+00	1.000000+00	1.000000+00
9.800000-01	1.069834+00	8.085801-01	5.182817+00	9.170005-01	9.702962-01	8.638029-01
9.600000-01	9.874296-01	7.843338-01	4.507602+00	8.463689-01	9.412246-01	7.951267-01
9.400000-01	9.169645-01	7.606765-01	3.944749+00	7.859696-01	9.128118-01	6.574582-01
9.200000-01	8.564510-01	7.375643-01	3.471668+00	7.341009-01	8.850772-01	5.786113-01
9.000000-01	8.042877-01	7.150270-01	3.070927+00	6.893893-01	8.580324-01	5.118211-01
8.800000-01	7.591724-01	6.930678-01	2.728946+00	6.507192-01	8.318814-01	4.548244-01
8.600000-01	7.200380-01	6.716833-01	2.435050+00	6.171755-01	8.060200-01	4.058416-01
8.400000-01	6.860038-01	6.508644-01	2.180775+00	5.880033-01	7.810373-01	3.634623-01
8.200000-01	6.563383-01	6.305964-01	1.959365+00	5.625737-01	7.567157-01	3.265608-01
8.000000-01	6.304303-01	6.108601-01	1.765387+00	5.403688-01	7.330321-01	2.942311-01
7.800000-01	6.077663-01	5.916325-01	1.594446+00	5.209426-01	7.099590-01	2.657411-01
7.600000-01	5.879135-01	5.728876-01	1.442970+00	5.039259-01	6.874651-01	2.404949-01
7.400000-01	5.705045-01	5.545972-01	1.308033+00	4.890039-01	6.655167-01	2.180055-01
7.200000-01	5.552269-01	5.367320-01	1.187234+00	4.759088-01	6.440784-01	1.978724-01
7.000000-01	5.418136-01	5.192617-01	1.078890+00	4.644117-01	6.231340-01	1.797761-01
6.800000-01	5.300355-01	5.021560-01	9.804572-01	4.543162-01	6.028872-01	1.634095-01
6.600000-01	5.196952-01	4.853850-01	8.914667-01	4.454531-01	5.824620-01	1.485778-01
6.400000-01	5.106220-01	4.689196-01	8.104755-01	4.376760-01	5.627035-01	1.350793-01
6.200000-01	5.026676-01	4.527315-01	7.365225-01	4.308589-01	5.432778-01	1.227543-01
6.000000-01	4.957029-01	4.367939-01	6.688108-01	4.248882-01	5.241527-01	1.114685-01
5.800000-01	4.896147-01	4.210815-01	6.066512-01	4.196698-01	5.052977-01	1.011085-01
5.600000-01	4.843037-01	4.055702-01	5.494716-01	4.151175-01	4.866842-01	9.157860-02
5.400000-01	4.796822-01	3.902379-01	4.967836-01	4.111562-01	4.682855-01	8.279727-02
5.200000-01	4.756726-01	3.750638-01	4.481718-01	4.077194-01	4.500766-01	7.469529-02
5.000000-01	4.722058-01	3.600290-01	4.032814-01	4.047479-01	4.320347-01	6.721356-02
4.800000-01	4.692203-01	3.451158-01	3.618088-01	4.021888-01	4.141390-01	6.030147-02
4.600000-01	4.666602-01	3.303085-01	3.234934-01	3.999950-01	3.963702-01	5.391556-02
4.400000-01	4.644780-01	3.155926-01	2.881100-01	3.981240-01	3.787111-01	4.801833-02
4.200000-01	4.626272-01	3.009550-01	2.534639-01	3.965376-01	3.611460-01	4.257732-02
4.000000-01	4.610684-01	2.863842-01	2.253855-01	3.952015-01	3.436610-01	3.756425-02
3.800000-01	4.597652-01	2.718696-01	1.977258-01	3.940843-01	3.262496-01	3.295431-02
3.600000-01	4.586849-01	2.574023-01	1.723535-01	3.931585-01	3.088827-01	2.872559-02
3.400000-01	4.577979-01	2.429739-01	1.491513-01	3.923982-01	2.915687-01	2.485855-02
3.200000-01	4.570774-01	2.285776-01	1.280132-01	3.917807-01	2.742931-01	2.133554-02
3.000000-01	4.564994-01	2.142072-01	1.088427-01	3.912852-01	2.570487-01	1.814046-02
2.800000-01	4.560421-01	1.998576-01	9.155014-02	3.908933-01	2.398291-01	1.525836-02
2.600000-01	4.556862-01	1.855242-01	7.605102-02	3.905882-01	2.226290-01	1.267917-02
2.400000-01	4.554143-01	1.712034-01	6.226463-02	3.903551-01	2.054441-01	1.037744-02
2.200000-01	4.552111-01	1.568921-01	5.011237-02	3.901809-01	1.882705-01	8.352062-03
2.000000-01	4.550631-01	1.425879-01	3.951653-02	3.900541-01	1.711055-01	6.586088-03
1.800000-01	4.549587-01	1.282887-01	3.039899-02	3.899646-01	1.539465-01	5.066499-03
1.600000-01	4.548878-01	1.139931-01	2.268014-02	3.899039-01	1.367917-01	3.780023-03
1.400000-01	4.548419-01	9.969975-02	1.627757-02	3.898645-01	1.196397-01	2.712928-03
1.200000-01	4.548140-01	8.540791-02	1.110488-02	3.898406-01	1.024895-01	1.850813-03
1.000000-01	4.547983-01	7.111694-02	7.070142-03	3.898271-01	8.534033-02	1.178357-03
8.000000-02	4.547904-01	5.682644-02	4.074014-03	3.898204-01	6.819172-02	6.790023-04
6.000000-02	4.547871-01	4.233615-02	2.007009-03	3.898175-01	5.104338-02	3.345015-04
4.000000-02	4.547860-01	2.824594-02	7.450988-04	3.898166-01	3.898166-02	1.241831-04
2.000000-02	4.547857-01	1.395576-02	1.411435-04	3.898164-01	1.674691-02	2.352392-05

TABLE 3
CYLINDRICAL BLAST WAVES IN AIR

M = 1.1

x	g	f	h	p/p _R	u/u _R	ρ/ρ _R
1.000000+00	1.028926+00	1.446279-01	1.169082+00	1.000000+00	1.000000+00	1.000000+00
2.000000-01	1.011010+00	1.343045-01	1.154486+00	9.825881-01	9.286212-01	9.875750-01
3.000000-01	9.950326-01	1.249457-01	1.141405+00	9.670599-01	8.639117-01	9.763256-01
4.000000-01	9.808114-01	1.164911-01	1.129709+00	9.532385-01	8.054537-01	9.663213-01
5.000000-01	9.681526-01	1.088614-01	1.119235+00	9.409355-01	7.527001-01	9.573793-01
6.000000-01	9.568655-01	1.019703-01	1.109899+00	9.299658-01	7.050528-01	9.493764-01
7.000000-01	9.467738-01	9.573181-02	1.101305+00	9.201578-01	6.619181-01	9.421963-01
8.000000-01	9.377197-01	9.008570-02	1.092950+00	9.113582-01	6.227409-01	9.357341-01
9.000000-01	9.295656-01	8.489958-02	1.087126+00	9.034334-01	5.870209-01	9.298971-01
1.000000-01	9.221934-01	8.016974-02	1.080939+00	8.962684-01	5.543173-01	9.246054-01
2.000000-01	9.155024-01	7.582083-02	1.075310+00	8.897655-01	5.242477-01	9.197905-01
3.000000-01	9.094072-01	7.180519-02	1.070170+00	8.838417-01	4.964824-01	9.153937-01
4.000000-01	9.038193-01	6.808193-02	1.065461+00	8.784266-01	4.707387-01	9.113653-01
5.000000-01	8.987260-01	6.461601-02	1.061132+00	8.734607-01	4.467743-01	9.076630-01
6.000000-01	8.940264-01	6.137737-02	1.057143+00	8.688932-01	4.243813-01	9.042506-01
7.000000-01	8.896923-01	5.834016-02	1.053456+00	8.644810-01	4.033812-01	9.010971-01
8.000000-01	8.856856-01	5.548214-02	1.050041+00	8.607869-01	3.836199-01	8.981760-01
9.000000-01	8.819736-01	5.278402-02	1.046871+00	8.571792-01	3.649644-01	8.954645-01
1.000000-01	8.785280-01	5.022909-02	1.043923+00	8.538305-01	3.472988-01	8.929426-01
2.000000-01	8.753244-01	4.780276-02	1.041177+00	8.507170-01	3.305225-01	8.905934-01
3.000000-01	8.723415-01	4.549228-02	1.038614+00	8.478179-01	3.145471-01	8.884016-01
4.000000-01	8.695677-01	4.328644-02	1.036221+00	8.451153-01	2.992953-01	8.863543-01
5.000000-01	8.669657-01	4.117533-02	1.033983+00	8.425932-01	2.846984-01	8.844398-01
6.000000-01	8.645422-01	3.915018-02	1.031888+00	8.402379-01	2.706960-01	8.826481-01
7.000000-01	8.622774-01	3.720320-02	1.029926+00	8.380368-01	2.572340-01	8.809699-01
8.000000-01	8.601603-01	3.532742-02	1.028088+00	8.359792-01	2.442642-01	8.793975-01
9.000000-01	8.581809-01	3.351658-02	1.026365+00	8.340554-01	2.317436-01	8.779236-01
1.000000-01	8.563303-01	3.178508-02	1.024749+00	8.322568-01	2.196332-01	8.765418-01
2.000000-01	8.546005-01	3.006782-02	1.023235+00	8.305757-01	2.078978-01	8.752465-01
3.000000-01	8.529846-01	2.842021-02	1.021816+00	8.290052-01	1.965057-01	8.740325-01
4.000000-01	8.514763-01	2.681805-02	1.020486+00	8.275393-01	1.854279-01	8.728951-01
5.000000-01	8.500697-01	2.525752-02	1.019241+00	8.261723-01	1.746380-01	8.718303-01
6.000000-01	8.487600-01	2.373510-02	1.018076+00	8.248993-01	1.641115-01	8.708340-01
7.000000-01	8.475423-01	2.224758-02	1.016988+00	8.237159-01	1.538264-01	8.699029-01
8.000000-01	8.464127-01	2.079198-02	1.015972+00	8.226181-01	1.437619-01	8.690338-01
9.000000-01	8.453675-01	1.936552-02	1.015025+00	8.216022-01	1.338990-01	8.682237-01
1.000000-01	8.444032-01	1.796566-02	1.014143+00	8.206651-01	1.242199-01	8.674698-01
2.000000-01	8.435170-01	1.659000-02	1.013325+00	8.198037-01	1.147082-01	8.667697-01
3.000000-01	8.427061-01	1.523629-02	1.012566+00	8.190136-01	1.053483-01	8.661208-01
4.000000-01	8.419681-01	1.390245-02	1.011865+00	8.182984-01	9.612569-02	8.655208-01
5.000000-01	8.413010-01	1.258650-02	1.011217+00	8.176500-01	8.702682-02	8.649672-01
6.000000-01	8.407027-01	1.128659-02	1.010622+00	8.170686-01	7.803882-02	8.644375-01
7.000000-01	8.401718-01	1.000097-02	1.010074+00	8.165526-01	6.914966-02	8.639889-01
8.000000-01	8.397066-01	8.728020-03	1.009570+00	8.161005-01	6.034812-02	8.635581-01
9.000000-01	8.393039-01	7.466271-03	1.009106+00	8.157111-01	5.162401-02	8.631611-01
1.000000-01	8.389688-01	6.214459-03	1.008674+00	8.153834-01	4.296861-02	8.627920-01
2.000000-01	8.386941-01	4.971727-03	1.008265+00	8.151165-01	3.437599-02	8.624417-01
3.000000-01	8.384814-01	3.738204-03	1.007858+00	8.149097-01	2.584705-02	8.620940-01
4.000000-01	8.383300-01	2.517370-03	1.007413+00	8.147626-01	1.740584-02	8.617130-01
5.000000-01	8.382396-01	1.332644-03	1.006795+00	8.146747-01	9.214294-03	8.611840-01

TABLE 3 (Continued)

M = 1.2

x	g	f	h	p/p _R	u/u _R	p/p _R
1.000000+00	1.050926+00	2.546300-01	1.341615+00	1.000000+00	1.000000+00	1.000000+00
9.800000-01	1.025066+00	2.415823-01	1.317771+00	9.752932-01	9.667584-01	9.622271-01
9.600000-01	1.000995+00	2.291083-01	1.295414+00	9.524488-01	8.997496-01	9.655621-01
9.400000-01	9.786415-01	2.172242-01	1.274507+00	9.312183-01	8.530976-01	9.499793-01
9.200000-01	9.579243-01	2.059373-01	1.254999+00	9.115051-01	8.087708-01	9.354888-01
9.000000-01	9.387553-01	1.952459-01	1.236832+00	8.932650-01	7.667829-01	9.218978-01
8.800000-01	9.210409-01	1.851402-01	1.219940+00	8.764090-01	7.270949-01	9.093064-01
8.600000-01	9.046845-01	1.756032-01	1.204248+00	8.608482-01	6.896406-01	8.976107-01
8.400000-01	8.895887-01	1.666124-01	1.189683+00	8.464809-01	6.543315-01	8.867542-01
8.200000-01	8.756578-01	1.581412-01	1.176167+00	8.332250-01	6.210630-01	8.766798-01
8.000000-01	8.627989-01	1.501603-01	1.162624+00	8.209893-01	5.897197-01	8.673307-01
7.800000-01	8.509240-01	1.426388-01	1.151981+00	8.096898-01	5.601808-01	8.586520-01
7.600000-01	8.399503-01	1.355456-01	1.141166+00	7.992478-01	5.323238-01	8.505911-01
7.400000-01	8.298010-01	1.288498-01	1.131114+00	7.895904-01	5.060275-01	8.430987-01
7.200000-01	8.204054-01	1.225215-01	1.121763+00	7.806501-01	4.811748-01	8.361287-01
7.000000-01	8.116990-01	1.165324-01	1.113056+00	7.723656-01	4.576599-01	8.296385-01
6.800000-01	8.036230-01	1.108556-01	1.104940+00	7.646809-01	4.353594-01	8.235892-01
6.600000-01	7.961243-01	1.054659-01	1.097368+00	7.573456-01	4.141929-01	8.179449-01
6.400000-01	7.891549-01	1.003340-01	1.090295+00	7.509340-01	3.940628-01	8.126736-01
6.200000-01	7.826717-01	9.545686-02	1.083483+00	7.447442-01	3.748846-01	8.077450-01
6.000000-01	7.766357-01	9.079614-02	1.077496+00	7.390014-01	3.565807-01	8.031330-01
5.800000-01	7.710121-01	8.633983-02	1.071700+00	7.336503-01	3.390796-01	7.988133-01
5.600000-01	7.657695-01	8.207123-02	1.066268+00	7.286617-01	3.223158-01	7.947639-01
5.400000-01	7.608797-01	7.797513-02	1.061171+00	7.240088-01	3.062292-01	7.909650-01
5.200000-01	7.563173-01	7.403747-02	1.056386+00	7.196476-01	2.907650-01	7.873988-01
5.000000-01	7.520596-01	7.024545-02	1.051891+00	7.156162-01	2.758727-01	7.840482-01
4.800000-01	7.480862-01	6.658729-02	1.047667+00	7.118353-01	2.615061-01	7.808993-01
4.600000-01	7.443784-01	6.305220-02	1.043694+00	7.083072-01	2.476229-01	7.779381-01
4.400000-01	7.409198-01	5.963024-02	1.039956+00	7.050162-01	2.341839-01	7.751523-01
4.200000-01	7.376953-01	5.631225-02	1.036439+00	7.019480-01	2.211533-01	7.725306-01
4.000000-01	7.346914-01	5.308980-02	1.033128+00	6.990897-01	2.084978-01	7.700626-01
3.800000-01	7.318960-01	4.995504-02	1.030010+00	6.964296-01	1.961868-01	7.677387-01
3.600000-01	7.292979-01	4.690072-02	1.027073+00	6.939575-01	1.841917-01	7.655497-01
3.400000-01	7.268873-01	4.392008-02	1.024306+00	6.916637-01	1.724859-01	7.634872-01
3.200000-01	7.246552-01	4.100678-02	1.021698+00	6.895397-01	1.610446-01	7.615433-01
3.000000-01	7.225935-01	3.815490-02	1.019239+00	6.875779-01	1.498445-01	7.597101-01
2.800000-01	7.206949-01	3.535881-02	1.016918+00	6.857714-01	1.388435-01	7.579803-01
2.600000-01	7.189528-01	3.261318-02	1.014726+00	6.841137-01	1.280807-01	7.563461-01
2.400000-01	7.173615-01	2.991289-02	1.012651+00	6.825995-01	1.174759-01	7.547999-01
2.200000-01	7.159154-01	2.725297-02	1.010684+00	6.812235-01	1.070297-01	7.533534-01
2.000000-01	7.146100-01	2.462849-02	1.008811+00	6.799814-01	9.672268-02	7.519376-01
1.800000-01	7.134411-01	2.203446-02	1.007019+00	6.788691-01	8.653524-02	7.506018-01
1.600000-01	7.124048-01	1.946563-02	1.005290+00	6.778830-01	7.644673-02	7.493193-01
1.400000-01	7.114980-01	1.691610-02	1.003603+00	6.770202-01	6.643407-02	7.480557-01
1.200000-01	7.107178-01	1.437873-02	1.001927+00	6.762777-01	5.646912-02	7.468061-01
1.000000-01	7.100616-01	1.184361-02	1.000216+00	6.756533-01	4.651304-02	7.455812-01
8.000000-02	7.095273-01	9.294559-03	9.983988-01	6.751449-01	3.650222-02	7.441764-01
6.000000-02	7.091130-01	6.698367-03	9.963412-01	6.747507-01	2.630628-02	7.426429-01
4.000000-02	7.088167-01	3.962114-03	9.937964-01	6.744688-01	1.556028-02	7.407163-01
2.000000-02	7.086349-01	6.341394-04	9.898106-01	6.742958-01	2.440483-03	7.377752-01

TABLE 3 (Continued)

M = 1.4

x	g	f	h	p/p _R	u/u _R	ρ/ρ _R
1.000000+00	1.081693+00	4.081632-01	1.689655+00	1.000000+00	1.000000+00	1.000000+00
9.800000-01	1.043571+00	3.924047-01	1.645218+00	9.644811-01	9.644811-01	9.737597-01
9.600000-01	1.007677+00	3.769473-01	1.603073+00	9.316260-01	9.235211-01	9.487879-01
9.400000-01	9.738634-01	3.618134-01	1.562873+00	9.003662-01	8.964431-01	9.249667-01
9.200000-01	9.420516-01	3.470248-01	1.524665+00	8.709534-01	8.502108-01	9.023528-01
9.000000-01	9.121523-01	3.326014-01	1.488397+00	8.432107-01	8.148736-01	8.808880-01
8.800000-01	8.840848-01	3.185617-01	1.454013+00	8.173614-01	7.804763-01	8.605386-01
8.600000-01	8.577665-01	3.049213-01	1.421456+00	7.930293-01	7.470574-01	8.412700-01
8.400000-01	8.331154-01	2.916933-01	1.390664+00	7.702388-01	7.146488-01	8.230462-01
8.200000-01	8.100493-01	2.788875-01	1.361573+00	7.489136-01	6.832745-01	8.058291-01
8.000000-01	7.884870-01	2.665103-01	1.334116+00	7.289786-01	6.529504-01	7.895792-01
7.800000-01	7.683476-01	2.545649-01	1.308225+00	7.103591-01	6.236841-01	7.742555-01
7.600000-01	7.495514-01	2.430508-01	1.283827+00	6.929815-01	5.954746-01	7.598160-01
7.400000-01	7.320202-01	2.319645-01	1.260851+00	6.767734-01	5.683132-01	7.462179-01
7.200000-01	7.156778-01	2.212995-01	1.239223+00	6.616644-01	5.421838-01	7.334179-01
7.000000-01	7.004503-01	2.110465-01	1.218871+00	6.475861-01	5.170641-01	7.213729-01
6.800000-01	6.862663-01	2.011942-01	1.199723+00	6.344727-01	4.929258-01	7.100401-01
6.600000-01	6.730579-01	1.917290-01	1.181707+00	6.222611-01	4.697362-01	6.993776-01
6.400000-01	6.607602-01	1.826363-01	1.164754+00	6.108915-01	4.474591-01	6.893445-01
6.200000-01	6.493118-01	1.739001-01	1.148799+00	6.003072-01	4.260554-01	6.799014-01
6.000000-01	6.386552-01	1.655037-01	1.133776+00	5.904548-01	4.054842-01	6.710102-01
5.800000-01	6.287362-01	1.574300-01	1.119424+00	5.812844-01	3.857036-01	6.626345-01
5.600000-01	6.195045-01	1.496617-01	1.106284+00	5.727495-01	3.666715-01	6.547398-01
5.400000-01	6.109134-01	1.421816-01	1.093702+00	5.648068-01	3.483450-01	6.472933-01
5.200000-01	6.029196-01	1.349726-01	1.081825+00	5.574162-01	3.306830-01	6.402639-01
5.000000-01	5.954829-01	1.280183-01	1.070603+00	5.505409-01	3.136448-01	6.336221-01
4.800000-01	5.885668-01	1.213023-01	1.059989+00	5.441467-01	2.971906-01	6.273404-01
4.600000-01	5.821373-01	1.148091-01	1.049939+00	5.382024-01	2.812824-01	6.213926-01
4.400000-01	5.761634-01	1.083239-01	1.040411+00	5.326794-01	2.658835-01	6.157538-01
4.200000-01	5.706168-01	1.024321-01	1.031366+00	5.275514-01	2.509587-01	6.104003-01
4.000000-01	5.654715-01	9.652016-02	1.022764+00	5.227944-01	2.364745-01	6.053097-01
3.800000-01	5.607039-01	9.077501-02	1.014571+00	5.183866-01	2.223988-01	6.004602-01
3.600000-01	5.562923-01	8.518421-02	1.006749+00	5.143080-01	2.087014-01	5.958309-01
3.400000-01	5.522171-01	7.973593-02	9.992633-01	5.103403-01	1.953531-01	5.914009-01
3.200000-01	5.484604-01	7.441892-02	9.920800-01	5.070672-01	1.823264-01	5.871495-01
3.000000-01	5.450060-01	6.922247-02	9.851629-01	5.038735-01	1.695951-01	5.830557-01
2.800000-01	5.418391-01	6.413638-02	9.784751-01	5.009456-01	1.571342-01	5.790976-01
2.600000-01	5.389465-01	5.915088-02	9.719773-01	4.982713-01	1.449197-01	5.752520-01
2.400000-01	5.363161-01	5.425663-02	9.656261-01	4.958394-01	1.329288-01	5.714931-01
2.200000-01	5.339369-01	4.944464-02	9.593726-01	4.936398-01	1.211394-01	5.677921-01
2.000000-01	5.317993-01	4.470619-02	9.531590-01	4.916635-01	1.095302-01	5.641146-01
1.800000-01	5.298944-01	4.003278-02	9.469149-01	4.899024-01	9.808033-02	5.604191-01
1.600000-01	5.282143-01	3.541597-02	9.405503-01	4.883491-01	8.676915-02	5.566523-01
1.400000-01	5.267520-01	3.084719-02	9.339448-01	4.869971-01	7.557563-02	5.527430-01
1.200000-01	5.255012-01	2.631735-02	9.269289-01	4.858407-01	6.447753-02	5.485907-01
1.000000-01	5.244563-01	2.181608-02	9.192467-01	4.848747-01	5.344940-02	5.440441-01
8.000000-02	5.236122-01	1.732973-02	9.104805-01	4.840943-01	4.245784-02	5.388559-01
6.000000-02	5.229643-01	1.283567-02	8.998660-01	4.834953-01	3.144740-02	5.325739-01
4.000000-02	5.225081-01	8.279255-03	8.857421-01	4.830736-01	2.028418-02	5.242148-01
2.000000-02	5.222383-01	3.412994-03	8.631775-01	4.828241-01	8.261638-03	5.108603-01

TABLE 3 (Continued)

M = 1.6						
x	g	f	h	P/P _R	u/u _R	ρ/ρ _R
1.000000+00	1.101362+00	3.078123-01	2.031745+00	1.000000+00	1.000000+00	1.000000+00
9.800000-01	1.053287+00	4.905196-01	1.961869+00	9.561758-01	9.659466-01	9.656076-01
9.600000-01	1.007874+00	4.734281-01	1.895365+00	9.149491-01	9.322894-01	9.328751-01
9.400000-01	9.681804-01	4.565570-01	1.822115+00	8.761922-01	8.990463-01	9.017442-01
9.200000-01	9.250736-01	4.399260-01	1.772004+00	8.397832-01	8.663161-01	8.721584-01
9.000000-01	8.874249-01	4.235550-01	1.714919+00	8.056057-01	8.340778-01	8.440622-01
8.800000-01	8.521115-01	4.074638-01	1.660752+00	7.735481-01	8.023905-01	8.174016-01
8.600000-01	8.190155-01	3.916718-01	1.609393+00	7.435035-01	7.712924-01	7.921232-01
8.400000-01	7.880236-01	3.761975-01	1.560734+00	7.153690-01	7.408199-01	7.681742-01
8.200000-01	7.590266-01	3.610584-01	1.514671+00	6.890459-01	7.110076-01	7.455022+01
8.000000-01	7.319191-01	3.462704-01	1.471096+00	6.644373-01	6.818866-01	7.240554-01
7.800000-01	7.065992-01	3.318476-01	1.429905+00	6.414518-01	6.534848-01	7.037816-01
7.600000-01	6.829684-01	3.178018-01	1.390992+00	6.199998-01	6.258254-01	6.846290-01
7.400000-01	6.609316-01	3.041424-01	1.354252+00	5.999947-01	5.989268-01	6.665459-01
7.200000-01	6.403965-01	2.908762-01	1.319579+00	5.813529-01	5.728025-01	6.494807-01
7.000000-01	6.212745-01	2.780071-01	1.286871+00	5.639939-01	5.474603-01	6.333818-01
6.800000-01	6.034800-01	2.655364-01	1.256022+00	5.478400-01	5.229026-01	6.181984-01
6.600000-01	5.869308-01	2.534627-01	1.226930+00	5.328167-01	4.991267-01	6.038798-01
6.400000-01	5.715484-01	2.417820-01	1.199493+00	5.188525-01	4.761246-01	5.903764-01
6.200000-01	5.572577-01	2.304877-01	1.173616+00	5.058794-01	4.538837-01	5.776395-01
6.000000-01	5.439875-01	2.195715-01	1.149719+00	4.938327-01	4.323871-01	5.656212-01
5.800000-01	5.316702-01	2.090228-01	1.126146+00	4.826510-01	4.116143-01	5.542754-01
5.600000-01	5.202423-01	1.988297-01	1.104369+00	4.722767-01	3.915417-01	5.438556-01
5.400000-01	5.096439-01	1.889788-01	1.083779+00	4.626555-01	3.721491-01	5.334226-01
5.200000-01	4.998192-01	1.794559-01	1.064290+00	4.537366-01	3.533903-01	5.238904-01
5.000000-01	4.907189-01	1.702459-01	1.045821+00	4.454727-01	3.352536-01	5.147402-01
4.800000-01	4.822856-01	1.613333-01	1.028293+00	4.378196-01	3.177026-01	5.061193-01
4.600000-01	4.744834-01	1.527021-01	1.011631+00	4.307367-01	3.007058-01	4.979129-01
4.400000-01	4.672676-01	1.443365-01	9.957615-01	4.241862-01	2.842319-01	4.901016-01
4.200000-01	4.605999-01	1.362204-01	9.806142-01	4.181333-01	2.682496-01	4.828463-01
4.000000-01	4.544453-01	1.283382-01	9.661205-01	4.125461-01	2.527276-01	4.755126-01
3.800000-01	4.487713-01	1.206742-01	9.522134-01	4.073953-01	2.376354-01	4.686677-01
3.600000-01	4.435483-01	1.132132-01	9.388262-01	4.026538-01	2.229430-01	4.620787-01
3.400000-01	4.387493-01	1.059404-01	9.258927-01	3.982979-01	2.086211-01	4.557130-01
3.200000-01	4.343495-01	9.884115-02	9.133452-01	3.943031-01	1.946411-01	4.498373-01
3.000000-01	4.303262-01	9.190144-02	9.011138-01	3.906508-01	1.809752-01	4.443517-01
2.800000-01	4.266591-01	8.510742-02	8.891244-01	3.873218-01	1.675962-01	4.391616-01
2.600000-01	4.233294-01	7.844561-02	8.772971-01	3.842991-01	1.544776-01	4.341794-01
2.400000-01	4.203201-01	7.190274-02	8.655426-01	3.815672-01	1.415931-01	4.290094-01
2.200000-01	4.176157-01	6.546561-02	8.537589-01	3.791122-01	1.289169-01	4.240297-01
2.000000-01	4.152022-01	5.912096-02	8.418252-01	3.769212-01	1.164229-01	4.193360-01
1.800000-01	4.130669-01	5.285507-02	8.295935-01	3.749828-01	1.040839-01	4.148319-01
1.600000-01	4.111982-01	4.665327-02	8.168752-01	3.732863-01	9.187108-02	4.105559-01
1.400000-01	4.095853-01	4.049892-02	8.034205-01	3.718222-01	7.975175-02	4.064337-01
1.200000-01	4.082185-01	3.437147-02	7.888812-01	3.705814-01	6.768539-02	4.024776-01
1.000000-01	4.070886-01	2.824216-02	7.727445-01	3.695556-01	5.561535-02	3.985333-01
8.000000-02	4.061866-01	2.206830-02	7.554199-01	3.687368-01	4.344775-02	3.947207-01
6.000000-02	4.055036-01	1.573626-02	7.318433-01	3.681168-01	3.098833-02	3.912044-01
4.000000-02	4.050290-01	8.983201-03	7.029492-01	3.676859-01	1.769000-02	3.879830-01
2.000000-02	4.047430-01	4.495161-04	6.617727-01	3.674263-01	8.892013-04	3.857164-01

TABLE 3 (Continued)

M = 1.8

x	g	f	h	p/p _R	u/u _R	ρ/ρ _R
1.000000+00	1.115226+00	5.761817-01	2.559224+00	1.000000+00	1.000000+00	1.000000+00
9.800000-01	1.057798+00	5.577077-01	2.257801+00	9.844498-01	9.888212-01	9.870103-01
9.600000-01	1.004110+00	5.394432-01	2.161913+00	9.600364-01	9.636392-01	9.636663-01
9.400000-01	9.599612-01	5.213558-01	2.071294+00	8.553969-01	9.049266-01	8.779589-01
9.200000-01	9.071341-01	5.034638-01	1.985692+00	8.134081-01	8.738692-01	8.416718-01
9.000000-01	8.634910-01	4.857864-01	1.904865+00	7.742204-01	8.491863-01	8.074117-01
8.800000-01	8.226655-01	4.689431-01	1.828581+00	7.376668-01	8.129098-01	7.750775-01
8.600000-01	7.846622-01	4.511537-01	1.756619+00	7.035901-01	7.830739-01	7.448782-01
8.400000-01	7.492556-01	4.342381-01	1.688766+00	6.718418-01	7.537131-01	7.158149-01
8.200000-01	7.162894-01	4.176155-01	1.624816+00	6.422816-01	7.248610-01	6.887080-01
8.000000-01	6.856159-01	4.013047-01	1.564571+00	6.147770-01	6.965502-01	6.631722-01
7.800000-01	6.570938-01	3.853233-01	1.507840+00	5.892022-01	6.688111-01	6.391295-01
7.600000-01	6.305916-01	3.696877-01	1.454436+00	5.654382-01	6.416721-01	6.164892-01
7.400000-01	6.059827-01	3.544121-01	1.404179+00	5.433712-01	6.151581-01	5.951868-01
7.200000-01	5.831473-01	3.395090-01	1.356893+00	5.228960-01	5.892905-01	5.751439-01
7.000000-01	5.619718-01	3.249883-01	1.312408+00	5.039083-01	5.640867-01	5.562881-01
6.800000-01	5.423482-01	3.108574-01	1.270558+00	4.863122-01	5.395596-01	5.385493-01
6.600000-01	5.241743-01	2.971211-01	1.231182+00	4.700189-01	5.157174-01	5.218590-01
6.400000-01	5.073523-01	2.837814-01	1.194123+00	4.549322-01	4.925633-01	5.061510-01
6.200000-01	4.917913-01	2.708974-01	1.159230+00	4.402789-01	4.700763-01	4.913610-01
6.000000-01	4.774043-01	2.582859-01	1.126357+00	4.280784-01	4.483104-01	4.774268-01
5.800000-01	4.641098-01	2.461209-01	1.095560+00	4.161575-01	4.271955-01	4.642884-01
5.600000-01	4.518312-01	2.343345-01	1.066105+00	4.051476-01	4.067977-01	4.518880-01
5.400000-01	4.404970-01	2.229167-01	1.038460+00	3.949844-01	3.869196-01	4.401700-01
5.200000-01	4.300402-01	2.118555-01	1.012298+00	3.856080-01	3.677207-01	4.290810-01
5.000000-01	4.203985-01	2.011380-01	9.874995-01	3.769625-01	3.491181-01	4.185497-01
4.800000-01	4.115142-01	1.907498-01	9.639477-01	3.689961-01	3.310871-01	4.085869-01
4.600000-01	4.033337-01	1.806756-01	9.415912-01	3.616609-01	3.136012-01	3.990852-01
4.400000-01	3.958078-01	1.708997-01	9.201424-01	3.549126-01	2.966330-01	3.900192-01
4.200000-01	3.888910-01	1.614058-01	8.996775-01	3.487104-01	2.801543-01	3.813447-01
4.000000-01	3.825414-01	1.521774-01	8.800353-01	3.430169-01	2.641365-01	3.730191-01
3.800000-01	3.767208-01	1.431981-01	8.611171-01	3.377977-01	2.485509-01	3.650002-01
3.600000-01	3.713941-01	1.344514-01	8.428249-01	3.330213-01	2.333691-01	3.572467-01
3.400000-01	3.665291-01	1.259211-01	8.250608-01	3.286590-01	2.185631-01	3.497171-01
3.200000-01	3.620966-01	1.175914-01	8.077252-01	3.246844-01	2.041051-01	3.423691-01
3.000000-01	3.580699-01	1.094467-01	7.907153-01	3.210737-01	1.899682-01	3.351591-01
2.800000-01	3.544245-01	1.014720-01	7.739225-01	3.178050-01	1.761263-01	3.280412-01
2.600000-01	3.511382-01	9.365248-02	7.572293-01	3.148582-01	1.625539-01	3.209653-01
2.400000-01	3.481907-01	8.597419-02	7.405056-01	3.122183-01	1.492266-01	3.138768-01
2.200000-01	3.455635-01	7.842351-02	7.236030-01	3.098596-01	1.361208-01	3.067123-01
2.000000-01	3.432397-01	7.098749-02	7.063464-01	3.077758-01	1.232140-01	2.993978-01
1.800000-01	3.412035-01	6.365380-02	6.885228-01	3.059500-01	1.104848-01	2.918430-01
1.600000-01	3.394407-01	5.641091-02	6.698625-01	3.043693-01	9.791321-02	2.839395-01
1.400000-01	3.379377-01	4.924825-02	6.500091-01	3.030217-01	8.548038-02	2.755182-01
1.200000-01	3.366819-01	4.215669-02	6.284677-01	3.018956-01	7.317194-02	2.663675-01
1.000000-01	3.356610-01	3.512944-02	6.045076-01	3.009802-01	6.097466-02	2.562316-01
8.000000-02	3.348630-01	2.816447-02	5.769586-01	3.002646-01	4.888546-02	2.445544-01
6.000000-02	3.342754-01	2.127161-02	5.437200-01	2.997377-01	3.692143-02	2.304656-01
4.000000-02	3.338844-01	1.450103-02	5.002485-01	2.993871-01	2.516965-02	2.120398-01
2.000000-02	3.336735-01	8.142169-03	4.319164-01	2.991980-01	1.413248-02	1.832078-01

TABLE 3 (Continued)

M = 2.0

x	g	f	h	p/p _R	u/u _R	p/p _R
1.000000+00	1.125000+00	6.250001-01	2.666668+00	1.000000+00	1.000000+00	1.000000+00
9.800000-01	1.059129+00	6.056013-01	2.527995+00	9.414430-01	9.689619-01	9.478479-01
9.600000-01	9.980686-01	5.863474-01	2.397385+00	8.871721-01	9.381556-01	8.990192-01
9.400000-01	9.414951-01	5.672560-01	2.275491+00	8.368845-01	9.076094-01	8.533088-01
9.200000-01	8.890873-01	5.483456-01	2.161399+00	7.902998-01	8.773527-01	8.105243-01
9.000000-01	8.405527-01	5.296354-01	2.054628+00	7.471580-01	8.474165-01	7.704851-01
8.800000-01	7.956196-01	5.111456-01	1.954723+00	7.072174-01	8.178328-01	7.330210-01
8.600000-01	7.540358-01	4.928967-01	1.861260+00	6.702541-01	7.886345-01	6.979724-01
8.400000-01	7.155669-01	4.749093-01	1.773837+00	6.360595-01	7.598546-01	6.651885-01
8.200000-01	6.799948-01	4.572040-01	1.692073+00	6.044398-01	7.315262-01	6.345271-01
8.000000-01	6.471164-01	4.398010-01	1.615611+00	5.752146-01	7.036814-01	6.058539-01
7.800000-01	6.167424-01	4.227197-01	1.544112+00	5.482154-01	6.765513-01	5.790417-01
7.600000-01	5.886960-01	4.059781-01	1.477234+00	5.232853-01	6.495649-01	5.539700-01
7.400000-01	5.628122-01	3.895929-01	1.414732+00	5.002775-01	6.233485-01	5.305244-01
7.200000-01	5.389368-01	3.735787-01	1.356257+00	4.790549-01	5.977257-01	5.089563-01
7.000000-01	5.169253-01	3.579477-01	1.301553+00	4.594892-01	5.727161-01	4.880821-01
6.800000-01	4.966430-01	3.427096-01	1.250357+00	4.414604-01	5.488835-01	4.688835-01
6.600000-01	4.779633-01	3.278716-01	1.202419+00	4.248563-01	5.245945-01	4.509070-01
6.400000-01	4.607685-01	3.134378-01	1.157503+00	4.095720-01	5.015003-01	4.340635-01
6.200000-01	4.449481-01	2.994093-01	1.115382+00	3.955094-01	4.792948-01	4.182681-01
6.000000-01	4.303994-01	2.857845-01	1.075842+00	3.825772-01	4.572551-01	4.034404-01
5.800000-01	4.170266-01	2.725591-01	1.038678+00	3.706903-01	4.360945-01	3.895041-01
5.600000-01	4.047408-01	2.597261-01	1.003697+00	3.597696-01	4.155617-01	3.763864-01
5.400000-01	3.934594-01	2.472763-01	9.707170-01	3.497417-01	3.956419-01	3.640187-01
5.200000-01	3.831060-01	2.351983-01	9.395627-01	3.405387-01	3.763172-01	3.523359-01
5.000000-01	3.736100-01	2.234793-01	9.100701-01	3.320978-01	3.578567-01	3.412762-01
4.800000-01	3.649065-01	2.121046-01	8.820828-01	3.243613-01	3.393673-01	3.307809-01
4.600000-01	3.569353-01	2.010588-01	8.554526-01	3.172760-01	3.216940-01	3.207946-01
4.400000-01	3.496423-01	1.903293-01	8.300382-01	3.107931-01	3.045204-01	3.112642-01
4.200000-01	3.429765-01	1.798871-01	8.057046-01	3.048680-01	2.878193-01	3.021391-01
4.000000-01	3.368923-01	1.697266-01	7.823219-01	2.994598-01	2.715623-01	2.933706-01
3.800000-01	3.313476-01	1.598263-01	7.597642-01	2.943312-01	2.557220-01	2.849115-01
3.600000-01	3.263041-01	1.501684-01	7.379087-01	2.890048-01	2.402693-01	2.767157-01
3.400000-01	3.217268-01	1.407354-01	7.166337-01	2.835979-01	2.251765-01	2.687976-01
3.200000-01	3.175840-01	1.315100-01	6.958173-01	2.822969-01	2.104159-01	2.609814-01
3.000000-01	3.138465-01	1.224752-01	6.753352-01	2.789747-01	1.959602-01	2.532506-01
2.800000-01	3.104880-01	1.136144-01	6.550581-01	2.759893-01	1.817830-01	2.456467-01
2.600000-01	3.074841-01	1.049116-01	6.348487-01	2.733192-01	1.678585-01	2.380682-01
2.400000-01	3.048127-01	9.635094-02	6.145574-01	2.709446-01	1.541615-01	2.304589-01
2.200000-01	3.024535-01	8.791737-02	5.940166-01	2.688475-01	1.406678-01	2.227962-01
2.000000-01	3.003876-01	7.959616-02	5.730334-01	2.670112-01	1.273938-01	2.148875-01
1.800000-01	2.985976-01	7.137310-02	5.519774-01	2.654201-01	1.141969-01	2.066765-01
1.600000-01	2.970672-01	6.323438-02	5.287641-01	2.640597-01	1.011750-01	1.982865-01
1.400000-01	2.957807-01	5.516650-02	5.048267-01	2.629161-01	8.826637-02	1.893099-01
1.200000-01	2.947231-01	4.715604-02	4.790700-01	2.619761-01	7.544965-02	1.794512-01
1.000000-01	2.938797-01	3.918918-02	4.507850-01	2.612264-01	6.270267-02	1.690443-01
8.000000-02	2.932353-01	3.125037-02	4.188787-01	2.606536-01	5.000059-02	1.570795-01
6.000000-02	2.927742-01	2.331843-02	3.814856-01	2.602437-01	3.730956-02	1.430571-01
4.000000-02	2.924785-01	1.535093-02	3.348891-01	2.599809-01	2.436148-02	1.255834-01
2.000000-02	2.923268-01	7.172749-03	2.693547-01	2.598460-01	1.147440-02	1.010080-01

TABLE 3 (Continued)

M = 2.4

x	g	f	h	p/p _R	u/u _R	p/p _R
1.000000+00	1.137731+00	6.886574-01	3.211396+00	1.000000+00	1.000000+00	1.000000+00
9.800000-01	1.056801+00	6.675224-01	2.982043+00	9.288667-01	9.693244-01	9.288667-01
9.600000-01	9.832384-01	6.465674-01	2.772084+00	8.642096-01	9.388811-01	8.630678-01
9.400000-01	9.163492-01	6.257830-01	2.580184+00	8.054178-01	9.087001-01	8.033217-01
9.200000-01	8.555087-01	6.052011-01	2.404693+00	7.519426-01	8.788131-01	7.486832-01
9.000000-01	8.001551-01	5.848444-01	2.244108+00	7.032900-01	8.492531-01	6.986864-01
8.800000-01	7.497824-01	5.647363-01	2.097076+00	6.590153-01	8.200541-01	6.529092-01
8.600000-01	7.039345-01	5.449005-01	1.962371+00	6.187176-01	7.912504-01	6.109697-01
8.400000-01	6.621996-01	5.253606-01	1.838878+00	5.820351-01	7.628766-01	5.729211-01
8.200000-01	6.242038-01	5.061400-01	1.723386+00	5.486407-01	7.349663-01	5.372485-01
8.000000-01	5.896163-01	4.872611-01	1.621375+00	5.182386-01	7.079522-01	5.046655-01
7.800000-01	5.581261-01	4.687448-01	1.526008+00	4.905605-01	6.806648-01	4.751112-01
7.600000-01	5.294584-01	4.506106-01	1.438119+00	4.653633-01	6.543320-01	4.477678-01
7.400000-01	5.033619-01	4.328752-01	1.357213+00	4.424259-01	6.285784-01	4.225582-01
7.200000-01	4.796078-01	4.155529-01	1.282651+00	4.215475-01	6.034248-01	3.999489-01
7.000000-01	4.579883-01	3.986532-01	1.213830+00	4.025451-01	5.788875-01	3.779293-01
6.800000-01	4.383137-01	3.821898-01	1.150278+00	3.852524-01	5.549782-01	3.581304-01
6.600000-01	4.204116-01	3.661616-01	1.091444+00	3.695175-01	5.317035-01	3.398131-01
6.400000-01	4.041248-01	3.509715-01	1.036903+00	3.552023-01	5.090652-01	3.228320-01
6.200000-01	3.893181-01	3.354176-01	9.862434-01	3.421810-01	4.870602-01	3.070396-01
6.000000-01	3.758371-01	3.206943-01	9.390906-01	3.303990-01	4.656805-01	2.923789-01
5.800000-01	3.633874-01	3.063933-01	8.951006-01	3.195722-01	4.449140-01	2.786830-01
5.600000-01	3.524531-01	2.925037-01	8.539586-01	3.097859-01	4.247448-01	2.658737-01
5.400000-01	3.423366-01	2.790119-01	8.153760-01	3.008941-01	4.051534-01	2.538613-01
5.200000-01	3.331491-01	2.659027-01	7.790885-01	2.928187-01	3.861176-01	2.425634-01
5.000000-01	3.248101-01	2.531593-01	7.448537-01	2.854893-01	3.676128-01	2.319047-01
4.800000-01	3.172470-01	2.407634-01	7.124489-01	2.788417-01	3.496128-01	2.218157-01
4.600000-01	3.103938-01	2.286961-01	6.816693-01	2.728181-01	3.320898-01	2.122327-01
4.400000-01	3.041909-01	2.169376-01	6.523259-01	2.673662-01	3.150153-01	2.030968-01
4.200000-01	2.985845-01	2.054681-01	6.242436-01	2.624385-01	2.983604-01	1.943536-01
4.000000-01	2.935259-01	1.942676-01	5.972598-01	2.579923-01	2.820961-01	1.859524-01
3.800000-01	2.889710-01	1.833160-01	5.712222-01	2.539888-01	2.661933-01	1.778458-01
3.600000-01	2.848799-01	1.725939-01	5.459873-01	2.503929-01	2.506237-01	1.699891-01
3.400000-01	2.812163-01	1.620820-01	5.214188-01	2.471728-01	2.353594-01	1.623399-01
3.200000-01	2.779473-01	1.517618-01	4.973859-01	2.442996-01	2.203734-01	1.548574-01
3.000000-01	2.750430-01	1.416151-01	4.737609-01	2.417468-01	2.056395-01	1.475020-01
2.800000-01	2.724758-01	1.316249-01	4.504184-01	2.394904-01	1.911326-01	1.402344-01
2.600000-01	2.702206-01	1.217744-01	4.272317-01	2.375082-01	1.768288-01	1.330154-01
2.400000-01	2.682341-01	1.120482-01	4.040715-01	2.357798-01	1.627053-01	1.258047-01
2.200000-01	2.665546-01	1.024314-01	3.808016-01	2.342860-01	1.487407-01	1.185598-01
2.000000-01	2.651018-01	9.291029-02	3.572755-01	2.330091-01	1.349151-01	1.112351-01
1.800000-01	2.638766-01	8.347220-02	3.333298-01	2.319322-01	1.212101-01	1.037798-01
1.600000-01	2.628604-01	7.410572-02	3.087763-01	2.310391-01	1.076090-01	9.613521-02
1.400000-01	2.620357-01	6.480105-02	2.833884-01	2.303142-01	9.409766-02	8.822088-02
1.200000-01	2.613847-01	5.555061-02	2.568798-01	2.297420-01	8.066508-02	7.997762-02
1.000000-01	2.608901-01	4.635033-02	2.286651-01	2.293073-01	6.730535-02	7.125546-02
8.000000-02	2.605339-01	3.720297-02	1.987831-01	2.289942-01	5.402246-02	6.188966-02
6.000000-02	2.602975-01	2.812786-02	1.657177-01	2.284649-01	4.084499-02	5.159498-02
4.000000-02	2.601608-01	1.919976-02	1.278675-01	2.286663-01	2.787999-02	3.981061-02
2.000000-02	2.601014-01	1.082044-02	7.978550-02	2.286140-01	1.571238-02	2.484062-02

TABLE 3 (Continued)

M = 3.0							
x	E	f	h	P/P _R	u/u _R	P/P _R	P/P _R
1.000000+00	1.148148+00	7.407407-01	3.857142+00	1.000000+00	1.000000+00	1.000000+00	1.000000+00
9.800000-01	1.048907+00	7.174505-01	3.469950+00	9.135639-01	9.685582-01	8.926169-01	8.926169-01
9.600000-01	9.814068-01	6.944030-01	3.130533+00	8.373543-01	9.374441-01	8.116196-01	8.116196-01
9.400000-01	8.841219-01	6.716283-01	2.832246+00	7.700417-01	9.066982-01	7.342860-01	7.342860-01
9.200000-01	8.157469-01	6.491568-01	2.569457+00	7.104892-01	8.763618-01	6.661556-01	6.661556-01
9.000000-01	7.551622-01	6.270192-01	2.337375+00	6.577219-01	8.464760-01	6.059862-01	6.059862-01
8.800000-01	7.014046-01	6.052456-01	2.131913+00	6.109008-01	8.170816-01	5.527182-01	5.527182-01
8.600000-01	6.536433-01	5.838650-01	1.949973+00	5.693023-01	7.882178-01	5.054449-01	5.054449-01
8.400000-01	6.111592-01	5.629044-01	1.787356+00	5.323000-01	7.599210-01	4.633886-01	4.633886-01
8.200000-01	5.733283-01	5.423884-01	1.642680+00	4.993505-01	7.322244-01	4.258799-01	4.258799-01
8.000000-01	5.396076-01	5.223383-01	1.513318+00	4.699808-01	7.051568-01	3.923419-01	3.923419-01
7.800000-01	5.095232-01	5.027717-01	1.397347+00	4.437783-01	6.787419-01	3.622752-01	3.622752-01
7.600000-01	4.826608-01	4.837019-01	1.293097+00	4.203820-01	6.529976-01	3.352475-01	3.352475-01
7.400000-01	4.586572-01	4.651378-01	1.199121+00	3.994756-01	6.279360-01	3.108832-01	3.108832-01
7.200000-01	4.371932-01	4.470834-01	1.114157+00	3.807812-01	6.035627-01	2.888556-01	2.888556-01
7.000000-01	4.179885-01	4.295384-01	1.037109+00	3.640545-01	5.798769-01	2.688802-01	2.688802-01
6.800000-01	4.007956-01	4.124978-01	9.670195-01	3.490801-01	5.568720-01	2.507088-01	2.507088-01
6.600000-01	3.853968-01	3.959525-01	9.030511-01	3.356682-01	5.345359-01	2.341244-01	2.341244-01
6.400000-01	3.715996-01	3.798898-01	8.444730-01	3.236513-01	5.128513-01	2.189975-01	2.189975-01
6.200000-01	3.592341-01	3.642938-01	7.906455-01	3.128813-01	4.921796-01	2.049822-01	2.049822-01
6.000000-01	3.481501-01	3.491456-01	7.410083-01	3.032275-01	4.713466-01	1.921133-01	1.921133-01
5.800000-01	3.382148-01	3.344246-01	6.950701-01	2.949742-01	4.514732-01	1.802034-01	1.802034-01
5.600000-01	3.293107-01	3.201082-01	6.524003-01	2.868190-01	4.321461-01	1.691408-01	1.691408-01
5.400000-01	3.213335-01	3.061728-01	6.126206-01	2.798711-01	4.133333-01	1.588276-01	1.588276-01
5.200000-01	3.141910-01	2.925941-01	5.753989-01	2.736502-01	3.950020-01	1.491775-01	1.491775-01
5.000000-01	3.078013-01	2.793474-01	5.404430-01	2.680850-01	3.771190-01	1.401149-01	1.401149-01
4.800000-01	3.020913-01	2.664081-01	5.074958-01	2.631118-01	3.596509-01	1.315730-01	1.315730-01
4.600000-01	2.969964-01	2.537518-01	4.763309-01	2.586743-01	3.425649-01	1.234932-01	1.234932-01
4.400000-01	2.924585-01	2.413547-01	4.467488-01	2.547219-01	3.258289-01	1.158238-01	1.158238-01
4.200000-01	2.884259-01	2.291936-01	4.185738-01	2.512096-01	3.094114-01	1.085191-01	1.085191-01
4.000000-01	2.848520-01	2.172463-01	3.916508-01	2.480969-01	2.932824-01	1.015391-01	1.015391-01
3.800000-01	2.816950-01	2.054911-01	3.658434-01	2.453473-01	2.774130-01	9.484831-02	9.484831-02
3.600000-01	2.789171-01	1.939076-01	3.410315-01	2.429278-01	2.617753-01	8.841559-02	8.841559-02
3.400000-01	2.764840-01	1.824764-01	3.171097-01	2.408086-01	2.463432-01	8.221364-02	8.221364-02
3.200000-01	2.743643-01	1.711790-01	2.939858-01	2.389625-01	2.310916-01	7.621856-02	7.621856-02
3.000000-01	2.725295-01	1.599978-01	2.715799-01	2.373644-01	2.159970-01	7.040961-02	7.040961-02
2.800000-01	2.709531-01	1.489163-01	2.498229-01	2.359914-01	2.010370-01	6.476891-02	6.476891-02
2.600000-01	2.696106-01	1.379188-01	2.286565-01	2.348221-01	1.861903-01	5.928122-02	5.928122-02
2.400000-01	2.684793-01	1.269902-01	2.080321-01	2.336368-01	1.714368-01	5.393426-02	5.393426-02
2.200000-01	2.675377-01	1.161161-01	1.879112-01	2.330167-01	1.567568-01	4.871773-02	4.871773-02
2.000000-01	2.667638-01	1.052823-01	1.682650-01	2.323444-01	1.421911-01	4.362426-02	4.362426-02
1.800000-01	2.661444-01	9.447407-02	1.490793-01	2.318032-01	1.275400-01	3.864916-02	3.864916-02
1.600000-01	2.656534-01	8.367566-02	1.303357-01	2.313773-01	1.129621-01	3.379074-02	3.379074-02
1.400000-01	2.652812-01	7.286830-02	1.120537-01	2.310514-01	9.837221-02	2.905095-02	2.905095-02
1.200000-01	2.650032-01	6.202703-02	9.425503-02	2.308110-01	8.373649-02	2.443649-02	2.443649-02
1.000000-01	2.648112-01	5.111332-02	7.699195-02	2.306420-01	6.900299-02	1.996088-02	1.996088-02
8.000000-02	2.646836-01	4.005690-02	6.036038-02	2.305309-01	5.407681-02	1.564899-02	1.564899-02
6.000000-02	2.646075-01	2.870105-02	4.454252-02	2.304646-01	3.874642-02	1.154806-02	1.154806-02
4.000000-02	2.645683-01	1.658421-02	2.993421-02	2.304305-01	2.298868-02	7.760721-03	7.760721-03
2.000000-02	2.645522-01	1.410658-03	1.764272-02	2.304164-01	1.904388-03	4.574028-03	4.574028-03

TABLE 3 (Continued)

M = 3.5

x	g	f	h	p/p _R	u/u _R	p/p _R
1.000000+00	1.153061+00	7.659062-01	4.260870+00	1.000000+00	1.000000+00	1.000000+00
9.800000-01	1.042181+00	7.496249-01	3.742360+00	9.038348-01	9.677491-01	8.783089-01
9.600000-01	9.466696-01	7.162844-01	3.302218+00	8.210035-01	9.359449-01	7.750103-01
9.400000-01	8.641240-01	6.923248-01	2.926824+00	7.494173-01	9.046277-01	6.869073-01
9.200000-01	7.925679-01	6.687829-01	2.605181+00	6.873597-01	8.738763-01	6.114199-01
9.000000-01	7.303652-01	6.456949-01	2.328362+00	6.334141-01	8.437079-01	5.464521-01
8.800000-01	6.761358-01	6.230938-01	2.089078+00	5.864006-01	8.141756-01	4.902938-01
8.600000-01	6.288018-01	6.010091-01	1.881352+00	5.453325-01	7.853186-01	4.415417-01
8.400000-01	5.879477-01	5.794660-01	1.700252+00	5.093812-01	7.571689-01	3.990387-01
8.200000-01	5.509872-01	5.584841-01	1.541697+00	4.778473-01	7.297525-01	3.618267-01
8.000000-01	5.190370-01	5.380773-01	1.402291+00	4.501363-01	7.030877-01	3.291090-01
7.800000-01	4.909158-01	5.182534-01	1.279200+00	4.257500-01	6.771845-01	3.002205-01
7.600000-01	4.661272-01	4.990142-01	1.170051+00	4.042519-01	6.520451-01	2.746036-01
7.400000-01	4.442464-01	4.803552-01	1.072848+00	3.852757-01	6.278641-01	2.517908-01
7.200000-01	4.249084-01	4.622669-01	9.859089-01	3.685047-01	6.040287-01	2.313868-01
7.000000-01	4.077991-01	4.447343-01	9.078134-01	3.536664-01	5.811195-01	2.130582-01
6.800000-01	3.926473-01	4.277387-01	8.373580-01	3.405260-01	5.609119-01	1.963328-01
6.600000-01	3.792187-01	4.112575-01	7.735211-01	3.288800-01	5.473765-01	1.813406-01
6.400000-01	3.673104-01	3.952655-01	7.154340-01	3.185524-01	5.364803-01	1.679880-01
6.200000-01	3.567461-01	3.797355-01	6.623564-01	3.093905-01	5.261877-01	1.554510-01
6.000000-01	3.473727-01	3.646389-01	6.136565-01	3.012613-01	5.164614-01	1.440214-01
5.800000-01	3.390566-01	3.499463-01	5.687941-01	2.940491-01	5.072632-01	1.334925-01
5.600000-01	3.316814-01	3.356284-01	5.273067-01	2.876529-01	4.985544-01	1.237584-01
5.400000-01	3.251448-01	3.216558-01	4.887980-01	2.819440-01	4.902968-01	1.147179-01
5.200000-01	3.193574-01	3.079997-01	4.529277-01	2.769648-01	4.824529-01	1.066293-01
5.000000-01	3.142403-01	2.946324-01	4.194038-01	2.725270-01	4.749863-01	9.843149-02
4.800000-01	3.097238-01	2.815271-01	3.879756-01	2.686101-01	4.678620-01	9.105548-02
4.600000-01	3.057464-01	2.686581-01	3.584277-01	2.651606-01	4.610466-01	8.412078-02
4.400000-01	3.022531-01	2.560014-01	3.305756-01	2.621310-01	4.545084-01	7.758405-02
4.200000-01	2.991950-01	2.435339-01	3.042411-01	2.594788-01	4.482176-01	7.140822-02
4.000000-01	2.965280-01	2.312345-01	2.793496-01	2.571659-01	4.421463-01	6.556164-02
3.800000-01	2.942127-01	2.190833-01	2.557266-01	2.551579-01	4.362684-01	6.001746-02
3.600000-01	2.922133-01	2.070611-01	2.332955-01	2.534239-01	4.305598-01	5.475302-02
3.400000-01	2.904973-01	1.951516-01	2.119759-01	2.519357-01	4.249980-01	4.974943-02
3.200000-01	2.890349-01	1.833388-01	1.917015-01	2.506674-01	4.195627-01	4.499115-02
3.000000-01	2.877991-01	1.716084-01	1.724189-01	2.495957-01	4.142349-01	4.046566-02
2.800000-01	2.867647-01	1.599472-01	1.540867-01	2.486986-01	4.089977-01	3.618319-02
2.600000-01	2.859087-01	1.483435-01	1.366740-01	2.479562-01	4.038955-01	3.207495-02
2.400000-01	2.852096-01	1.367864-01	1.201605-01	2.473499-01	4.087342-01	2.820093-02
2.200000-01	2.846476-01	1.252662-01	1.045353-01	2.468625-01	4.036811-01	2.453378-02
2.000000-01	2.842043-01	1.137740-01	8.979701-02	2.464780-01	4.086647-01	2.107481-02
1.800000-01	2.838623-01	1.023017-01	7.595389-02	2.461815-01	4.033674-01	1.782591-02
1.600000-01	2.836060-01	9.084152-02	6.302396-02	2.459591-01	4.086996-01	1.467913-02
1.400000-01	2.834203-01	7.938555-02	5.103605-02	2.457982-01	4.037305-01	1.197789-02
1.200000-01	2.832919-01	6.792484-02	4.003145-02	2.456868-01	4.087551-02	9.595135-03
1.000000-01	2.832082-01	5.644733-02	3.006694-02	2.456142-01	4.037578-02	7.856525-03
8.000000-02	2.831580-01	4.493288-02	2.122039-02	2.455707-01	4.087123-02	6.980295-03
6.000000-02	2.831315-01	3.333855-02	1.360205-02	2.455477-01	4.036237-02	5.192317-03
4.000000-02	2.831200-01	2.153968-02	7.381232-03	2.455377-01	4.0814518-02	1.732330-03
2.000000-02	2.831166-01	8.918408-03	2.873290-03	2.455347-01	1.166339-02	6.743434-04

TABLE 3 (Continued)

M = 4.0						
x	g	f	h	P/P _R	u/u _R	P/P _R
1.000000+00	1.136250+00	7.812500-01	4.571429+00	1.000000+00	1.000000+00	1.000000+00
9.800000-01	1.036415+00	7.555019-01	3.932672+00	8.963589-01	9.670424-01	8.602719-01
9.600000-01	9.352481-01	7.302031-01	3.405396+00	8.088632-01	9.346599-01	7.449303-01
9.400000-01	8.494209-01	7.053987-01	2.966996+00	7.346343-01	9.029103-01	6.490308-01
9.200000-01	7.762830-01	6.811310-01	2.599989+00	6.712799-01	8.718476-01	5.687475-01
9.000000-01	7.137063-01	6.574379-01	2.290716+00	6.172595-01	8.415205-01	5.010941-01
8.800000-01	6.599695-01	6.343516-01	2.028441+00	5.707844-01	8.119701-01	4.437213-01
8.600000-01	6.136700-01	6.118977-01	1.804649+00	5.307417-01	7.832291-01	3.947670-01
8.400000-01	5.736577-01	5.900942-01	1.612547+00	4.961364-01	7.553206-01	3.527446-01
8.200000-01	5.389834-01	5.689512-01	1.446676+00	4.661478-01	7.282376-01	3.164603-01
8.000000-01	5.088596-01	5.484709-01	1.302626+00	4.400948-01	7.020428-01	2.849495-01
7.800000-01	4.826295-01	5.286478-01	1.176817+00	4.174093-01	6.766691-01	2.574287-01
7.600000-01	4.597428-01	5.094693-01	1.066325+00	3.976154-01	6.521207-01	2.332585-01
7.400000-01	4.397368-01	4.909167-01	9.687523-01	3.803329-01	6.283734-01	2.119145-01
7.200000-01	4.222208-01	4.729661-01	8.821275-01	3.651640-01	6.053966-01	1.929654-01
7.000000-01	4.068637-01	4.555893-01	8.048201-01	3.518821-01	5.831543-01	1.760544-01
6.800000-01	3.933842-01	4.387551-01	7.354785-01	3.402242-01	5.616066-01	1.608659-01
6.600000-01	3.815425-01	4.224301-01	6.729782-01	3.299827-01	5.407103-01	1.472140-01
6.400000-01	3.711333-01	4.065796-01	6.163808-01	3.209802-01	5.204219-01	1.348333-01
6.200000-01	3.619808-01	3.911685-01	5.649010-01	3.130645-01	5.006957-01	1.235721-01
6.000000-01	3.539335-01	3.761618-01	5.178799-01	3.061046-01	4.814871-01	1.132862-01
5.800000-01	3.468603-01	3.615251-01	4.747631-01	2.999874-01	4.627521-01	1.038544-01
5.600000-01	3.406485-01	3.472250-01	4.350834-01	2.946149-01	4.444481-01	9.517448-02
5.400000-01	3.351990-01	3.332298-01	3.984461-01	2.899018-01	4.265341-01	8.716007-02
5.200000-01	3.304257-01	3.195089-01	3.645172-01	2.857736-01	4.089714-01	7.973814-02
5.000000-01	3.262533-01	3.060337-01	3.330142-01	2.821650-01	3.917231-01	7.284685-02
4.800000-01	3.226152-01	2.927774-01	3.036973-01	2.790185-01	3.747550-01	6.643378-02
4.600000-01	3.194525-01	2.797148-01	2.762834-01	2.762833-01	3.580350-01	6.045449-02
4.400000-01	3.167132-01	2.668229-01	2.508404-01	2.739141-01	3.413333-01	5.467133-02
4.200000-01	3.143505-01	2.540801-01	2.269826-01	2.718707-01	3.252226-01	4.965243-02
4.000000-01	3.123228-01	2.414669-01	2.046669-01	2.701170-01	3.090777-01	4.477087-02
3.800000-01	3.105924-01	2.289653-01	1.837895-01	2.686205-01	2.930756-01	4.020396-02
3.600000-01	3.091256-01	2.165591-01	1.642634-01	2.673519-01	2.771956-01	3.593262-02
3.400000-01	3.078915-01	2.042333-01	1.460158-01	2.662843-01	2.614186-01	3.194094-02
3.200000-01	3.068623-01	1.919747-01	1.289860-01	2.653944-01	2.457276-01	2.821568-02
3.000000-01	3.060124-01	1.797712-01	1.131241-01	2.646594-01	2.301072-01	2.474590-02
2.800000-01	3.053188-01	1.676122-01	9.838935-02	2.640595-01	2.145436-01	2.152267-02
2.600000-01	3.047603-01	1.554878-01	8.474851-02	2.635765-01	1.990244-01	1.853874-02
2.400000-01	3.043176-01	1.433893-01	7.217515-02	2.631936-01	1.835383-01	1.578831-02
2.200000-01	3.039731-01	1.313086-01	6.064840-02	2.628956-01	1.680750-01	1.326684-02
2.000000-01	3.037108-01	1.192381-01	5.015214-02	2.626688-01	1.524248-01	1.097078-02
1.800000-01	3.035164-01	1.071703-01	4.087417-02	2.625006-01	1.371779-01	8.897473-03
1.600000-01	3.033768-01	9.509674-02	3.220553-02	2.623799-01	1.217238-01	7.044959-03
1.400000-01	3.032806-01	8.300766-02	2.473989-02	2.622967-01	1.062498-01	5.411850-03
1.200000-01	3.032176-01	7.088914-02	1.827300-02	2.622422-01	9.073810-02	3.997218-03
1.000000-01	3.031791-01	5.871874-02	1.280225-02	2.622089-01	7.515959-02	2.800492-03
8.000000-02	3.031577-01	4.645389-02	8.326345-03	2.621904-01	5.946098-02	1.821388-03
6.000000-02	3.031473-01	3.399741-02	4.846158-03	2.621814-01	4.351669-02	1.059878-03
4.000000-02	3.031432-01	2.105988-02	2.360072-03	2.621779-01	2.695664-02	5.162658-04
2.000000-02	3.031421-01	6.196538-03	8.726086-04	2.621769-01	7.931569-03	1.908831-04

TABLE 3 (Continued)

M = 5.0

x	g	f	h	P/P _R	u/u _R	P/P _R
1.000000+00	1.160000+00	8.000000-01	4.999999+00	1.000000+00	1.000000+00	1.000000+00
9.800000-01	1.028019+00	7.728425-01	4.186408+00	8.862235-01	9.460520-01	8.332877-01
9.600000-01	9.199927-01	7.463344-01	3.507025+00	7.930972-01	9.329181-01	7.014031-01
9.400000-01	8.308758-01	7.205312-01	2.979199+00	7.162723-01	9.006640-01	5.958399-01
9.200000-01	7.568452-01	6.954754-01	2.551979+00	6.524525-01	8.693443-01	5.103960-01
9.000000-01	6.949658-01	6.712002-01	2.202586+00	5.991085-01	8.390002-01	4.406172-01
8.800000-01	6.429574-01	6.477266-01	1.914031+00	5.542736-01	8.096582-01	3.828063-01
8.600000-01	5.990296-01	6.250636-01	1.673502+00	5.164049-01	7.813295-01	3.347004-01
8.400000-01	5.617633-01	6.032081-01	1.471226+00	4.842788-01	7.540102-01	2.942453-01
8.200000-01	5.300235-01	5.821460-01	1.299683+00	4.569169-01	7.276826-01	2.599266-01
8.000000-01	5.028957-01	5.618535-01	1.153029+00	4.335308-01	7.023170-01	2.306089-01
7.800000-01	4.796378-01	5.422987-01	1.026693+00	4.134809-01	6.778734-01	2.053389-01
7.600000-01	4.596437-01	5.234435-01	9.170661-01	3.962446-01	6.543043-01	1.834132-01
7.400000-01	4.424156-01	5.052451-01	8.212857-01	3.813928-01	6.315564-01	1.643572-01
7.200000-01	4.275425-01	4.876584-01	7.370627-01	3.685711-01	6.095750-01	1.474126-01
7.000000-01	4.146829-01	4.706363-01	6.622573-01	3.574853-01	5.882954-01	1.325113-01
6.800000-01	4.035521-01	4.544319-01	5.962817-01	3.478898-01	5.676650-01	1.192564-01
6.600000-01	3.939110-01	4.380990-01	5.370267-01	3.395785-01	5.476238-01	1.074054-01
6.400000-01	3.855583-01	4.224928-01	4.838044-01	3.323779-01	5.281180-01	9.676089-02
6.200000-01	3.783233-01	4.072703-01	4.358034-01	3.261408-01	5.090860-01	8.716069-02
6.000000-01	3.720605-01	3.923914-01	3.923944-01	3.207419-01	4.904892-01	7.847089-02
5.800000-01	3.666457-01	3.778180-01	3.529029-01	3.160739-01	4.722726-01	7.058058-02
5.600000-01	3.619716-01	3.635152-01	3.169870-01	3.120448-01	4.543940-01	6.339742-02
5.400000-01	3.579456-01	3.494504-01	2.842210-01	3.085738-01	4.368130-01	5.664420-02
5.200000-01	3.544874-01	3.355941-01	2.542804-01	3.055926-01	4.194926-01	5.058609-02
5.000000-01	3.515264-01	3.219192-01	2.268920-01	3.030401-01	4.023990-01	4.537841-02
4.800000-01	3.490011-01	3.084011-01	2.018238-01	3.008631-01	3.855014-01	4.036477-02
4.600000-01	3.468571-01	2.950179-01	1.788784-01	2.990148-01	3.687723-01	3.577968-02
4.400000-01	3.450464-01	2.817496-01	1.578862-01	2.974538-01	3.521870-01	3.157724-02
4.200000-01	3.435261-01	2.685785-01	1.387012-01	2.961432-01	3.357232-01	2.774025-02
4.000000-01	3.422585-01	2.554890-01	1.211963-01	2.950504-01	3.192613-01	2.423926-02
3.800000-01	3.412096-01	2.424671-01	1.052598-01	2.941463-01	3.030839-01	2.105197-02
3.600000-01	3.403494-01	2.295006-01	9.079298-02	2.934047-01	2.866758-01	1.815860-02
3.400000-01	3.396509-01	2.165787-01	7.770705-02	2.928025-01	2.707234-01	1.554141-02
3.200000-01	3.390900-01	2.036921-01	6.592149-02	2.923190-01	2.546151-01	1.318430-02
3.000000-01	3.386455-01	1.908325-01	5.596212-02	2.919398-01	2.385406-01	1.107242-02
2.800000-01	3.382983-01	1.779927-01	4.595963-02	2.916365-01	2.224909-01	9.191927-03
2.600000-01	3.380318-01	1.651664-01	3.764831-02	2.914067-01	2.064580-01	7.529663-03
2.400000-01	3.378311-01	1.523478-01	3.036494-02	2.912337-01	1.904348-01	6.072990-03
2.200000-01	3.376834-01	1.395316-01	2.404786-02	2.911064-01	1.744145-01	4.809573-03
2.000000-01	3.375777-01	1.267123-01	1.883614-02	2.910153-01	1.583904-01	3.727228-03
1.800000-01	3.375044-01	1.138841-01	1.406884-02	2.909521-01	1.423552-01	2.813769-03
1.600000-01	3.374556-01	1.010399-01	1.028441-02	2.909101-01	1.262999-01	2.054882-03
1.400000-01	3.374247-01	8.817001-02	7.220019-03	2.908834-01	1.102125-01	1.444004-03
1.200000-01	3.374063-01	7.525832-02	4.810982-03	2.908675-01	9.407416-02	9.621964-04
1.000000-01	3.373962-01	6.228191-02	2.990078-03	2.908588-01	7.785239-02	5.980156-04
8.000000-02	3.373913-01	4.918668-02	1.686773-03	2.908546-01	6.148335-02	3.373547-04
6.000000-02	3.373892-01	3.585512-02	8.261852-04	2.908528-01	4.481890-02	1.652371-04
4.000000-02	3.373885-01	2.193232-02	3.274703-04	2.908522-01	2.741540-02	6.549407-05
2.000000-02	3.373884-01	5.644230-03	9.969460-05	2.908521-01	7.055288-03	1.993892-05

TABLE 3 (Continued)

M = 7.0						
x	g	f	h	P/P _R	u/u _R	p/p _R
1.000000+00	1.163265+00	8.163265-01	5.444445+00	1.000000+00	1.000000+00	1.000000+00
9.800000-01	1.019205+00	7.878358-01	4.372484+00	8.761585-01	9.650988-01	8.031092-01
9.600000-01	9.054319-01	7.602796-01	3.564669+00	7.783537-01	9.313425-01	6.947351-01
9.400000-01	8.145048-01	7.337090-01	2.944483+00	7.001883-01	8.987936-01	5.408234-01
9.200000-01	7.410880-01	7.081554-01	2.460267+00	6.370757-01	8.674903-01	4.518858-01
9.000000-01	6.812809-01	6.836294-01	2.076362+00	5.856625-01	8.374460-01	3.813725-01
8.800000-01	6.321822-01	6.601222-01	1.767663+00	5.434548-01	8.086497-01	3.246728-01
8.600000-01	5.916014-01	6.376074-01	1.516190+00	5.085697-01	7.810691-01	2.784839-01
8.400000-01	5.578627-01	6.160439-01	1.308859+00	4.795662-01	7.546538-01	2.404027-01
8.200000-01	5.296685-01	5.953793-01	1.136020+00	4.553290-01	7.293397-01	2.086566-01
8.000000-01	5.060038-01	5.755535-01	9.904885-01	4.349857-01	7.050530-01	1.819210-01
7.800000-01	4.860669-01	5.565014-01	8.667244-01	4.178470-01	6.817143-01	1.591943-01
7.600000-01	4.692190-01	5.381564-01	7.606507-01	4.033637-01	6.592416-01	1.397114-01
7.400000-01	4.549469-01	5.204515-01	6.690213-01	3.910947-01	6.375531-01	1.228815-01
7.200000-01	4.428350-01	5.033219-01	5.893295-01	3.806827-01	6.165693-01	1.082442-01
7.000000-01	4.325440-01	4.867055-01	5.196037-01	3.718360-01	5.962142-01	9.543741-02
6.800000-01	4.237950-01	4.705440-01	4.582797-01	3.643150-01	5.764164-01	8.417381-02
6.600000-01	4.163571-01	4.547834-01	4.041056-01	3.579210-01	5.571097-01	7.422348-02
6.400000-01	4.100378-01	4.393739-01	3.560714-01	3.524886-01	5.382331-01	6.540087-02
6.200000-01	4.046753-01	4.242703-01	3.133552-01	3.478788-01	5.197312-01	5.755504-02
6.000000-01	4.001330-01	4.094317-01	2.752827-01	3.439740-01	5.015538-01	5.056213-02
5.800000-01	3.962947-01	3.948212-01	2.412960-01	3.406744-01	4.838560-01	4.431967-02
5.600000-01	3.930612-01	3.804061-01	2.109292-01	3.378947-01	4.659975-01	3.874210-02
5.400000-01	3.903471-01	3.661573-01	1.837902-01	3.355615-01	4.485427-01	3.375737-02
5.200000-01	3.880787-01	3.520490-01	1.595452-01	3.336115-01	4.312600-01	2.930422-02
5.000000-01	3.861923-01	3.380586-01	1.379079-01	3.319899-01	4.141217-01	2.533003-02
4.800000-01	3.846324-01	3.241663-01	1.186298-01	3.306489-01	3.9771037-01	2.178914-02
4.600000-01	3.833509-01	3.103550-01	1.014928-01	3.295473-01	3.801849-01	1.864153-02
4.400000-01	3.823056-01	2.966098-01	8.630385-02	3.286487-01	3.633470-01	1.585173-02
4.200000-01	3.814600-01	2.829179-01	7.289002-02	3.279217-01	3.465744-01	1.328796-02
4.000000-01	3.807820-01	2.692683-01	6.109482-02	3.273389-01	3.298536-01	1.122150-02
3.800000-01	3.802441-01	2.556516-01	5.077529-02	3.268765-01	3.131732-01	9.326074-03
3.600000-01	3.798220-01	2.420599-01	4.179972-02	3.265137-01	2.965233-01	7.677499-03
3.400000-01	3.794952-01	2.284862-01	3.404576-02	3.262327-01	2.798956-01	6.253303-03
3.200000-01	3.792456-01	2.149248-01	2.739906-02	3.260181-01	2.632828-01	5.032481-03
3.000000-01	3.790582-01	2.013705-01	2.175215-02	3.258570-01	2.466788-01	3.995292-03
2.800000-01	3.789200-01	1.878188-01	1.700362-02	3.257382-01	2.300780-01	3.123114-03
2.600000-01	3.788202-01	1.742654-01	1.305758-02	3.256525-01	2.134751-01	2.398330-03
2.400000-01	3.787500-01	1.607062-01	9.823172-03	3.255921-01	1.968651-01	1.804236-03
2.200000-01	3.787019-01	1.471367-01	7.214374-03	3.255507-01	1.802424-01	1.325089-03
2.000000-01	3.786700-01	1.335515-01	5.149808-03	3.255233-01	1.634006-01	9.458831-04
1.800000-01	3.786497-01	1.199438-01	3.552709-03	3.255059-01	1.469312-01	6.525383-04
1.600000-01	3.786374-01	1.063041-01	2.350960-03	3.254953-01	1.302225-01	4.318089-04
1.400000-01	3.786304-01	9.261782-02	1.477196-03	3.254893-01	1.134568-01	2.713217-04
1.200000-01	3.786267-01	7.886112-02	8.689831-04	3.254861-01	9.660487-02	1.596091-04
1.000000-01	3.786249-01	6.499142-02	4.690579-04	3.254846-01	7.961448-02	8.613350-05
8.000000-02	3.786241-01	5.092376-02	2.256555-04	3.254839-01	6.238161-02	4.144692-05
6.000000-02	3.786239-01	3.646008-02	9.293308-05	3.254837-01	4.466360-02	1.706934-05
4.000000-02	3.786238-01	2.100628-02	3.191651-05	3.254836-01	2.579269-02	5.788746-06
2.000000-02	3.786238-01	1.591938-03	9.220938-06	3.254836-01	1.950124-03	1.699362-06

TABLE 3 (Continued)

M = 10

x	g	f	h	p/p _R	u/u _R	p/p _R
1.000000+00	1.165000+00	8.250000-01	5.714286+00	1.000000+00	1.000000+00	1.000000+00
9.800000-01	1.013989+00	7.957930-01	4.479631+00	8.703769-01	9.645975-01	7.839334-01
9.600000-01	8.974884-01	7.677317-01	3.577718+00	7.703769-01	9.305838-01	6.261006-01
9.400000-01	8.062680-01	7.408571-01	2.903114+00	6.920755-01	8.980085-01	5.080449-01
9.200000-01	7.339996-01	7.151815-01	2.387824+00	6.299911-01	8.668864-01	4.178492-01
9.000000-01	6.759734-01	6.906901-01	1.986749+00	5.802347-01	8.372001-01	3.475810-01
8.800000-01	6.290893-01	6.673442-01	1.669230+00	5.399908-01	8.089021-01	2.921152-01
8.600000-01	5.908689-01	6.450864-01	1.413974+00	5.071836-01	7.819229-01	2.474455-01
8.400000-01	5.593007-01	6.238453-01	1.205909+00	4.802581-01	7.561761-01	2.110341-01
8.200000-01	5.336088-01	6.035411-01	1.034180+00	4.580333-01	7.315649-01	1.809815-01
8.000000-01	5.121352-01	5.840897-01	8.908471-01	4.396010-01	7.079875-01	1.558982-01
7.800000-01	4.942567-01	5.654063-01	7.700195-01	4.242547-01	6.853410-01	1.347534-01
7.600000-01	4.793261-01	5.474085-01	6.672674-01	4.114387-01	6.639255-01	1.167718-01
7.400000-01	4.668295-01	5.300176-01	5.792177-01	4.007120-01	6.424455-01	1.013611-01
7.200000-01	4.569547-01	5.131599-01	5.032714-01	3.917208-01	6.220120-01	8.807249-02
7.000000-01	4.475683-01	4.967679-01	4.374023-01	3.841788-01	6.021428-01	7.654540-02
6.800000-01	4.401983-01	4.807798-01	3.800136-01	3.778526-01	5.827634-01	6.650238-02
6.600000-01	4.340207-01	4.651403-01	3.298329-01	3.725499-01	5.638064-01	5.772075-02
6.400000-01	4.288498-01	4.497996-01	2.858350-01	3.681114-01	5.452116-01	5.002112-02
6.200000-01	4.245304-01	4.347138-01	2.471853-01	3.644038-01	5.269258-01	4.325743-02
6.000000-01	4.209323-01	4.198440-01	2.131968-01	3.613153-01	5.089018-01	3.730944-02
5.800000-01	4.179451-01	4.051562-01	1.832975-01	3.587512-01	4.910985-01	3.207705-02
5.600000-01	4.154753-01	3.906209-01	1.570059-01	3.566312-01	4.734799-01	2.747604-02
5.400000-01	4.134429-01	3.762122-01	1.339126-01	3.548866-01	4.560148-01	2.343471-02
5.200000-01	4.117796-01	3.619081-01	1.138650-01	3.534589-01	4.386765-01	1.989137-02
5.000000-01	4.104267-01	3.476896-01	9.595640-02	3.522976-01	4.214420-01	1.679237-02
4.800000-01	4.093340-01	3.335405-01	8.051738-02	3.513596-01	4.042915-01	1.409054-02
4.600000-01	4.084582-01	3.194471-01	6.710880-02	3.506079-01	3.872866-01	1.174404-02
4.400000-01	4.077624-01	3.053979-01	5.551657-02	3.500106-01	3.701792-01	9.715400-03
4.200000-01	4.072149-01	2.913891-01	4.554761-02	3.495406-01	3.551916-01	7.970831-03
4.000000-01	4.067886-01	2.775947-01	3.702658-02	3.491748-01	3.362359-01	6.479651-03
3.800000-01	4.064607-01	2.634260-01	2.979348-02	3.488933-01	3.193042-01	5.213859-03
3.600000-01	4.062118-01	2.494714-01	2.370173-02	3.486796-01	3.023895-01	4.147803-03
3.400000-01	4.060256-01	2.355263-01	1.861672-02	3.485198-01	2.854864-01	3.257927-03
3.200000-01	4.058886-01	2.215868-01	1.441471-02	3.484023-01	2.685901-01	2.522574-03
3.000000-01	4.057898-01	2.076497-01	1.098194-02	3.483174-01	2.516966-01	1.921839-03
2.800000-01	4.057199-01	1.937118-01	8.214012-03	3.482574-01	2.348022-01	1.437452-03
2.600000-01	4.056717-01	1.797706-01	6.015387-03	3.482161-01	2.179037-01	1.052693-03
2.400000-01	4.056394-01	1.658230-01	4.298970-03	3.481883-01	2.009976-01	7.523197-04
2.200000-01	4.056184-01	1.518661-01	2.985802-03	3.481703-01	1.840801-01	5.225154-04
2.000000-01	4.056053-01	1.378960-01	2.004798-03	3.481590-01	1.671466-01	3.508397-04
1.800000-01	4.055974-01	1.239074-01	1.292508-03	3.481523-01	1.501908-01	2.261889-04
1.600000-01	4.055930-01	1.098931-01	7.929036-04	3.481485-01	1.332038-01	1.387581-04
1.400000-01	4.055907-01	9.584174-02	4.571686-04	3.481465-01	1.161718-01	8.000450-05
1.200000-01	4.055895-01	8.173453-02	2.434836-04	3.481455-01	9.907216-02	4.260963-05
1.000000-01	4.055890-01	6.753788-02	1.167979-04	3.481451-01	8.186410-02	2.043963-05
8.000000-02	4.055888-01	5.318465-02	4.857865-05	3.481449-01	6.446624-02	8.501263-06
6.000000-02	4.055888-01	3.851822-02	1.652750-05	3.481449-01	4.668875-02	2.892312-06
4.000000-02	4.055888-01	2.306878-02	4.246042-06	3.481448-01	2.796216-02	7.430573-07
2.000000-02	4.055887-01	4.487311-03	8.216632-07	3.481448-01	5.4399165-03	1.437911-07

TABLE 3 (Concluded)

M = ∞						
x	g	f	h	p/p _R	u/u _R	p/p _R
1.000000+00	1.166667+00	8.533333-01	6.000000+00	1.000000+00	1.000000+00	1.000000+00
9.800000-01	1.008692+00	8.034568-01	4.578587+00	8.645934-01	9.641481-01	7.630979-01
9.600000-01	8.899372-01	7.749798-01	3.574938+00	7.628205-01	9.299757-01	5.958263-01
9.400000-01	7.990607-01	7.479216-01	2.844907+00	6.849092-01	8.975059-01	4.741512-01
9.200000-01	7.284081-01	7.222621-01	2.299932+00	6.243499-01	8.667146-01	3.833221-01
9.000000-01	6.727869-01	6.979476-01	1.883761+00	5.766745-01	8.375371-01	3.199602-01
8.800000-01	6.285278-01	6.748983-01	1.559512+00	5.387381-01	8.098780-01	2.599187-01
8.600000-01	5.929918-01	6.530172-01	1.302368+00	5.082787-01	7.836208-01	2.170613-01
8.400000-01	5.642452-01	6.321975-01	1.095235+00	4.836387-01	7.586369-01	1.825392-01
8.200000-01	5.408472-01	6.123292-01	9.260924-01	4.615833-01	7.347951-01	1.594348-01
8.000000-01	5.217084-01	5.933042-01	7.863231-01	4.417187-01	7.119650-01	1.410558-01
7.800000-01	5.059939-01	5.750191-01	6.696418-01	4.237090-01	6.900229-01	1.216070-01
7.600000-01	4.930551-01	5.573778-01	5.713883-01	4.072618-01	6.688534-01	9.523139-02
7.400000-01	4.829830-01	5.402927-01	4.880532-01	3.924711-01	6.483512-01	8.134221-02
7.200000-01	4.735728-01	5.236846-01	4.169547-01	3.799196-01	6.284215-01	6.949245-02
7.000000-01	4.662999-01	5.074830-01	3.560137-01	3.696857-01	6.099796-01	5.959937-02
6.800000-01	4.603012-01	4.916260-01	3.035962-01	3.645439-01	5.899512-01	5.059937-02
6.600000-01	4.553615-01	4.760591-01	2.584003-01	3.603098-01	5.712709-01	4.308672-02
6.400000-01	4.513036-01	4.607351-01	2.192747-01	3.568317-01	5.528821-01	3.658246-02
6.200000-01	4.479807-01	4.456133-01	1.856593-01	3.539833-01	5.347360-01	3.094322-02
6.000000-01	4.452701-01	4.306587-01	1.565414-01	3.516601-01	5.167904-01	2.609023-02
5.800000-01	4.430692-01	4.158413-01	1.314229-01	3.497736-01	4.990096-01	2.190382-02
5.600000-01	4.412916-01	4.011360-01	1.097963-01	3.482499-01	4.819632-01	1.829989-02
5.400000-01	4.398643-01	3.865214-01	9.122587-02	3.470267-01	4.658236-01	1.520431-02
5.200000-01	4.387266-01	3.719795-01	7.533385-02	3.460514-01	4.463754-01	1.255564-02
5.000000-01	4.378262-01	3.574956-01	6.178988-02	3.452796-01	4.289947-01	1.029831-02
4.800000-01	4.371197-01	3.430573-01	5.030284-02	3.446741-01	4.116687-01	8.388307-03
4.600000-01	4.365705-01	3.286545-01	4.061464-02	3.442033-01	3.943853-01	6.749106-03
4.400000-01	4.361479-01	3.142789-01	3.249539-02	3.438411-01	3.771347-01	5.415898-03
4.200000-01	4.358265-01	2.999240-01	2.573970-02	3.435656-01	3.599088-01	4.289950-03
4.000000-01	4.355850-01	2.855842-01	2.016373-02	3.433584-01	3.427011-01	3.360621-03
3.800000-01	4.354061-01	2.712556-01	1.560288-02	3.432053-01	3.255067-01	2.600460-03
3.600000-01	4.352757-01	2.569344-01	1.190993-02	3.430934-01	3.083212-01	1.984989-03
3.400000-01	4.351821-01	2.426180-01	8.953499-03	3.430132-01	2.911414-01	1.492250-03
3.200000-01	4.351163-01	2.283043-01	6.616740-03	3.429569-01	2.799651-01	1.102790-03
3.000000-01	4.350710-01	2.139914-01	4.796240-03	3.429180-01	2.567897-01	7.993733-04
2.800000-01	4.350406-01	1.996778-01	3.401010-03	3.428920-01	2.356134-01	5.648358-04
2.600000-01	4.350208-01	1.853622-01	2.351580-03	3.428750-01	2.224244-01	3.919300-04
2.400000-01	4.350082-01	1.710430-01	1.579147-03	3.428642-01	2.052516-01	2.639211-04
2.200000-01	4.350006-01	1.567189-01	1.024757-03	3.428577-01	1.880627-01	1.707928-04
2.000000-01	4.349961-01	1.423878-01	6.385211-04	3.428539-01	1.708693-01	1.066202-04
1.800000-01	4.349937-01	1.280471-01	3.788409-04	3.428517-01	1.536565-01	6.324014-05
1.600000-01	4.349924-01	1.136932-01	2.116436-04	3.428506-01	1.364518-01	3.527594-05
1.400000-01	4.349918-01	9.932016-02	1.096255-04	3.428501-01	1.191842-01	1.827092-05
1.200000-01	4.349915-01	8.491851-02	5.149572-05	3.428499-01	1.019022-01	8.582620-06
1.000000-01	4.349914-01	7.047098-02	2.122333-05	3.428496-01	8.465617-02	3.537222-06
8.000000-02	4.349913-01	5.594315-02	7.284223-06	3.428497-01	6.713178-02	1.214037-06
6.000000-02	4.349913-01	4.125472-02	1.908938-06	3.428497-01	4.950564-02	3.181562-07
4.000000-02	4.349913-01	2.618478-02	3.306357-07	3.428497-01	3.197773-02	5.510595-08
2.000000-02	4.349913-01	9.488790-03	3.320090-08	3.428497-01	1.136253-02	3.533484-09

TABLE 4
SPHERICAL BLAST WAVES IN AIR

M = 1.1

x	g	f	h	P/P _R	u/u _R	P/P _R
1.000000+00	1.028926+00	1.446279-01	1.169082+00	1.000000+00	1.000000+00	1.000000+00
9.800000-01	1.010167+00	1.352150-01	1.153787+00	9.817686-01	9.349163-01	9.869169-01
9.600000-01	9.932304-01	1.265851-01	1.139905+00	9.653084-01	8.752468-01	9.750429-01
9.400000-01	9.779496-01	1.186925-01	1.127319+00	9.504572-01	8.206748-01	9.642175-01
9.200000-01	9.641541-01	1.114795-01	1.115906+00	9.370495-01	7.708022-01	9.545149-01
9.000000-01	9.516800-01	1.048835-01	1.105543+00	9.249260-01	7.251959-01	9.4456505-01
8.800000-01	9.403753-01	9.884188-02	1.096115+00	9.139391-01	6.834221-01	9.375861-01
8.600000-01	9.301031-01	9.329475-02	1.087517+00	9.039557-01	6.450676-01	9.302317-01
8.400000-01	9.207423-01	8.818715-02	1.079655+00	8.948581-01	6.097521-01	9.235070-01
8.200000-01	9.121867-01	8.346951-02	1.072447+00	8.865430-01	5.771329-01	9.173412-01
8.000000-01	9.043445-01	7.509779-02	1.065820+00	8.789212-01	5.469056-01	9.116724-01
7.800000-01	8.971359-01	7.503319-02	1.059710+00	8.719153-01	5.188017-01	9.064468-01
7.600000-01	8.904924-01	7.124174-02	1.054065+00	8.654585-01	4.925865-01	9.016174-01
7.400000-01	8.843545-01	5.769370-02	1.048835+00	8.594932-01	4.680543-01	8.971439-01
7.200000-01	8.786709-01	6.436311-02	1.043980+00	8.539694-01	4.450256-01	8.929910-01
7.000000-01	8.733971-01	6.122726-02	1.039463+00	8.488439-01	4.233434-01	8.891279-01
6.800000-01	8.684945-01	5.826628-02	1.035255+00	8.440791-01	4.028704-01	8.855280-01
6.600000-01	8.639295-01	5.546272-02	1.031327+00	8.396424-01	3.834857-01	8.821680-01
6.400000-01	8.596725-01	5.280121-02	1.027655+00	8.355051-01	3.650832-01	8.790271-01
6.200000-01	8.556977-01	5.026821-02	1.024218+00	8.316421-01	3.475693-01	8.760875-01
6.000000-01	8.519823-01	4.785172-02	1.020998+00	8.280313-01	3.308610-01	8.733333-01
5.800000-01	8.483058-01	4.554108-02	1.017978+00	8.246533-01	3.148846-01	8.707504-01
5.600000-01	8.452528-01	4.332680-02	1.015144+00	8.214907-01	2.995743-01	8.683261-01
5.400000-01	8.422047-01	4.120038-02	1.012483+00	8.185284-01	2.848717-01	8.660493-01
5.200000-01	8.393487-01	3.915421-02	1.009982+00	8.157526-01	2.707238-01	8.639102-01
5.000000-01	8.366721-01	3.718143-02	1.007631+00	8.131512-01	2.570834-01	8.618997-01
4.800000-01	8.341637-01	3.527585-02	1.005422+00	8.107134-01	2.439077-01	8.600100-01
4.600000-01	8.318136-01	3.343185-02	1.003345+00	8.084293-01	2.311577-01	8.582336-01
4.400000-01	8.296127-01	3.164434-02	1.001394+00	8.062903-01	2.187983-01	8.565641-01
4.200000-01	8.275530-01	2.990866-02	9.995598-01	8.042885-01	2.067973-01	8.549956-01
4.000000-01	8.256271-01	2.822054-02	9.978379-01	8.024166-01	1.951252-01	8.535228-01
3.800000-01	8.238285-01	2.657609-02	9.962220-01	8.006687-01	1.837549-01	8.521406-01
3.600000-01	8.221512-01	2.497168-02	9.947069-01	7.990386-01	1.726616-01	8.508446-01
3.400000-01	8.205900-01	2.340398-02	9.932877-01	7.975213-01	1.618221-01	8.498306-01
3.200000-01	8.191399-01	2.186991-02	9.919599-01	7.961119-01	1.512150-01	8.484949-01
3.000000-01	8.177966-01	2.036655-02	9.907194-01	7.948064-01	1.408204-01	8.474338-01
2.800000-01	8.165552-01	1.889123-02	9.895622-01	7.936009-01	1.306195-01	8.464440-01
2.600000-01	8.154151-01	1.744138-02	9.884846-01	7.924918-01	1.205948-01	8.455222-01
2.400000-01	8.143701-01	1.601460-02	9.874830-01	7.914762-01	1.107297-01	8.446654-01
2.200000-01	8.134184-01	1.460859-02	9.865536-01	7.905513-01	1.010082-01	8.438705-01
2.000000-01	8.125574-01	1.322115-02	9.856928-01	7.897145-01	9.141495-02	8.431341-01
1.800000-01	8.117849-01	1.186010-02	9.848965-01	7.889637-01	8.193509-02	8.424530-01
1.600000-01	8.110988-01	1.049326-02	9.841602-01	7.882969-01	7.255349-02	8.418232-01
1.400000-01	8.104973-01	9.149329-03	9.834785-01	7.877123-01	6.325426-02	8.412401-01
1.200000-01	8.099790-01	7.812677-03	9.828442-01	7.872086-01	5.401917-02	8.406976-01
1.000000-01	8.095424-01	6.482725-03	9.822477-01	7.867842-01	4.482390-02	8.401869-01
9.000000-02	8.091863-01	5.192683-03	9.816713-01	7.864382-01	3.562718-02	8.396943-01
8.000000-02	8.089098-01	3.808211-03	9.810874-01	7.861694-01	2.633110-02	8.391948-01
7.000000-02	8.087112-01	2.397194-03	9.804315-01	7.859764-01	1.657491-02	8.386338-01
6.000000-02	8.085062-01	5.167283-04	9.799073-01	7.858550-01	3.572813-03	8.378432-01

TABLE 4 (Continued)

M = 1.2							
x	g	f	h	p/p _R	u/u _R	p/p _R	
1.000000+00	1.0509226+00	2.546300-01	1.341615+00	1.000000+00	1.000000+00	1.000000+00	
9.500000-01	1.021858+00	2.423215-01	1.314727+00	9.723410-01	9.516616-01	9.792579-01	
9.600000-01	9.947617-01	2.304964-01	1.289455+00	9.465574-01	9.052211-01	9.611208-01	
9.400000-01	9.693414-01	2.191697-01	1.265745+00	9.225592-01	8.607380-01	9.424464-01	
9.200000-01	9.460990-01	2.083499-01	1.243537+00	9.002528-01	8.182459-01	9.268952-01	
9.000000-01	9.243330-01	1.980391-01	1.222764+00	8.795413-01	7.777527-01	9.114115-01	
8.800000-01	9.041403-01	1.882332-01	1.203354+00	8.603274-01	7.392421-01	8.969437-01	
8.600000-01	8.854178-01	1.789222-01	1.185231+00	8.425121-01	7.026754-01	8.814360-01	
8.400000-01	8.680634-01	1.700917-01	1.168321+00	8.259986-01	6.679956-01	8.708313-01	
8.200000-01	8.519779-01	1.617232-01	1.152544+00	8.106927-01	6.351308-01	8.597721-01	
8.000000-01	8.370661-01	1.537960-01	1.137826+00	7.965034-01	6.039982-01	8.481017-01	
7.800000-01	8.232373-01	1.462869-01	1.124093+00	7.833447-01	5.745077-01	8.378652-01	
7.600000-01	8.104063-01	1.391719-01	1.111274+00	7.711355-01	5.465651-01	8.283130-01	
7.400000-01	7.984938-01	1.324267-01	1.099301+00	7.592002-01	5.200750-01	8.193861-01	
7.200000-01	7.874262-01	1.260272-01	1.088113+00	7.472690-01	4.949424-01	8.110466-01	
7.000000-01	7.771359-01	1.199497-01	1.077650+00	7.394773-01	4.710747-01	8.032477-01	
6.800000-01	7.675610-01	1.141717-01	1.067857+00	7.302664-01	4.483828-01	7.959490-01	
6.600000-01	7.586449-01	1.086714-01	1.058685+00	7.218824-01	4.267318-01	7.891130-01	
6.400000-01	7.503364-01	1.034285-01	1.050089+00	7.139765-01	4.061916-01	7.827052-01	
6.200000-01	7.425888-01	9.842384-02	1.042025+00	7.066043-01	3.865368-01	7.766943-01	
6.000000-01	7.353598-01	9.563942-02	1.034453+00	6.997256-01	3.677471-01	7.710515-01	
5.800000-01	7.286111-01	8.905460-02	1.027342+00	6.933040-01	3.497570-01	7.657502-01	
5.600000-01	7.223082-01	8.466590-02	1.020656+00	6.873065-01	3.325056-01	7.607665-01	
5.400000-01	7.164197-01	8.044697-02	1.014366+00	6.817034-01	3.159368-01	7.560784-01	
5.200000-01	7.109174-01	7.638853-02	1.008446+00	6.764677-01	2.999982-01	7.516657-01	
5.000000-01	7.057756-01	7.247830-02	1.002871+00	6.715750-01	2.846417-01	7.475101-01	
4.800000-01	7.009712-01	6.870490-02	9.976180-01	6.670034-01	2.698225-01	7.435946-01	
4.600000-01	6.964832-01	6.505781-02	9.926664-01	6.627329-01	2.554994-01	7.398038-01	
4.400000-01	6.922926-01	6.152728-02	9.879970-01	6.587454-01	2.416341-01	7.364234-01	
4.200000-01	6.883624-01	5.810428-02	9.835922-01	6.550246-01	2.281911-01	7.331402-01	
4.000000-01	6.847368-01	5.478041-02	9.794353-01	6.515557-01	2.151373-01	7.300419-01	
3.800000-01	6.813419-01	5.154786-02	9.755115-01	6.483253-01	2.024423-01	7.271171-01	
3.600000-01	6.781848-01	4.839936-02	9.718058-01	6.453212-01	1.900773-01	7.243550-01	
3.400000-01	6.752540-01	4.532812-02	9.683045-01	6.425324-01	1.780157-01	7.217452-01	
3.200000-01	6.725390-01	4.232777-02	9.649946-01	6.399490-01	1.662325-01	7.192781-01	
3.000000-01	6.700304-01	3.939234-02	9.618632-01	6.375619-01	1.547043-01	7.169440-01	
2.800000-01	6.677195-01	3.651618-02	9.588973-01	6.353631-01	1.434088-01	7.147334-01	
2.600000-01	6.655987-01	3.369396-02	9.560841-01	6.333451-01	1.323252-01	7.126265-01	
2.400000-01	6.635611-01	3.092060-02	9.534100-01	6.315013-01	1.214335-01	7.106433-01	
2.200000-01	6.619002-01	2.819120-02	9.508631-01	6.298258-01	1.107144-01	7.087427-01	
2.000000-01	6.603106-01	2.550104-02	9.484180-01	6.283132-01	1.001404-01	7.069224-01	
1.800000-01	6.588872-01	2.284541-02	9.460642-01	6.269588-01	8.972003-02	7.051679-01	
1.600000-01	6.576256-01	2.021952-02	9.437745-01	6.257583-01	7.940747-02	7.034612-01	
1.400000-01	6.565219-01	1.761821-02	9.415177-01	6.247081-01	6.919142-02	7.017791-01	
1.200000-01	6.555725-01	1.503533-02	9.392499-01	6.238047-01	5.904776-02	7.000588-01	
1.000000-01	6.547744-01	1.246228-02	9.369059-01	6.230453-01	4.894271-02	6.983416-01	
8.000000-02	6.541249-01	9.883711-03	9.343794-01	6.224272-01	3.881578-02	6.964585-01	
6.000000-02	6.536212-01	7.261765-03	9.314755-01	6.219480-01	2.851870-02	6.942940-01	
4.000000-02	6.532600-01	4.454247-03	9.277707-01	6.216042-01	1.749302-02	6.915325-01	
2.000000-02	6.530295-01	3.564491-03	9.220798-01	6.213850-01	1.399871-03	6.872907-01	

TABLE 4 (Continued)

M = 1.4						
x	g	f	h	p/p _R	u/u _R	p/p _R
1.000000+00	1.081633+00	4.081632-01	1.689655+00	1.000000+00	1.000000+00	1.000000+00
9.800000-01	1.036091+00	3.929872-01	1.636041+00	9.578951-01	9.628188-01	9.682696-01
9.600000-01	9.933731-01	3.780574-01	1.585142+00	9.184016-01	9.262407-01	9.381457-01
9.400000-01	9.533357-01	3.633945-01	1.536864+00	8.613859-01	8.903168-01	9.095729-01
9.200000-01	9.158399-01	3.490193-01	1.491114+00	8.467199-01	8.550973-01	8.824960-01
9.000000-01	8.807525-01	3.349514-01	1.447799+00	8.142806-01	8.206310-01	8.568605-01
8.800000-01	8.479453-01	3.212095-01	1.406827+00	7.839494-01	7.869634-01	8.326120-01
8.600000-01	8.172943-01	3.078107-01	1.368107+00	7.556118-01	7.541364-01	8.096960-01
8.400000-01	7.886901-01	2.947700-01	1.331546+00	7.291571-01	7.221867-01	7.890581-01
8.200000-01	7.619869-01	2.821001-01	1.297052+00	7.044785-01	6.911455-01	7.676434-01
8.000000-01	7.371028-01	2.698110-01	1.264533+00	6.814724-01	6.610372-01	7.483971-01
7.800000-01	7.139197-01	2.579099-01	1.233895+00	6.600390-01	6.318793-01	7.302643-01
7.600000-01	6.923335-01	2.454008-01	1.205045+00	6.400819-01	6.036622-01	7.131899-01
7.400000-01	6.722439-01	2.352551-01	1.177891+00	6.215086-01	5.764487-01	6.971194-01
7.200000-01	6.535549-01	2.245611-01	1.152343+00	6.042301-01	5.501748-01	6.819989-01
7.000000-01	6.361746-01	2.142244-01	1.128309+00	5.881615-01	5.248498-01	6.677750-01
6.800000-01	6.200157-01	2.042691-01	1.105703+00	5.732221-01	5.004569-01	6.543957-01
6.600000-01	6.049952-01	1.946833-01	1.084435+00	5.593352-01	4.769742-01	6.418103-01
6.400000-01	5.910349-01	1.854592-01	1.064431+00	5.464285-01	4.543751-01	6.299696-01
6.200000-01	5.780615-01	1.765834-01	1.045603+00	5.344342-01	4.326293-01	6.188263-01
6.000000-01	5.660050-01	1.686423-01	1.027876+00	5.232885-01	4.117038-01	6.083350-01
5.800000-01	5.548041-01	1.598217-01	1.011178+00	5.129321-01	3.915632-01	5.984524-01
5.600000-01	5.443960-01	1.519064-01	9.954383-01	5.033098-01	3.721708-01	5.891371-01
5.400000-01	5.347271-01	1.442812-01	9.805912-01	4.943704-01	3.534889-01	5.803500-01
5.200000-01	5.257455-01	1.369305-01	9.665738-01	4.860666-01	3.354798-01	5.720540-01
5.000000-01	5.174043-01	1.298380-01	9.533268-01	4.783549-01	3.181055-01	5.642139-01
4.800000-01	5.096601-01	1.229913-01	9.407940-01	4.711952-01	3.013287-01	5.567966-01
4.600000-01	5.024731-01	1.163726-01	9.289223-01	4.645507-01	2.851129-01	5.497704-01
4.400000-01	4.958070-01	1.099683-01	9.176610-01	4.583876-01	2.694224-01	5.431056-01
4.200000-01	4.896282-01	1.037644-01	9.069621-01	4.526752-01	2.542228-01	5.367736-01
4.000000-01	4.839084-01	9.774724-02	8.967794-01	4.473852-01	2.394808-01	5.307471-01
3.800000-01	4.786137-01	9.190381-02	8.870683-01	4.424920-01	2.251644-01	5.249997-01
3.600000-01	4.737249-01	8.622157-02	8.777852-01	4.379721-01	2.112429-01	5.195057-01
3.400000-01	4.692167-01	8.068853-02	8.688874-01	4.338041-01	1.976860-01	5.142396-01
3.200000-01	4.650683-01	7.529323-02	8.603317-01	4.299588-01	1.844684-01	5.091760-01
3.000000-01	4.612605-01	7.002470-02	8.520742-01	4.264484-01	1.715606-01	5.042890-01
2.800000-01	4.577751-01	6.487242-02	8.440694-01	4.232270-01	1.589375-01	4.995514-01
2.600000-01	4.545995-01	5.982659-02	8.362679-01	4.202901-01	1.465752-01	4.949342-01
2.400000-01	4.517167-01	5.487745-02	8.286158-01	4.176246-01	1.344498-01	4.904054-01
2.200000-01	4.491140-01	5.001591-02	8.210517-01	4.152186-01	1.225390-01	4.859286-01
2.000000-01	4.467007-01	4.523325-02	8.135032-01	4.130615-01	1.108215-01	4.814612-01
1.800000-01	4.447063-01	4.052109-02	8.058817-01	4.111435-01	9.927668-02	4.769505-01
1.600000-01	4.429811-01	3.587144-02	7.980742-01	4.094561-01	8.788305-02	4.723297-01
1.400000-01	4.412969-01	3.127674-02	7.899295-01	4.079915-01	7.662802-02	4.675094-01
1.200000-01	4.399460-01	2.672984-02	7.812343-01	4.067425-01	6.548825-02	4.623632-01
1.000000-01	4.388215-01	2.224611-02	7.716674-01	4.057029-01	5.445030-02	4.567912-01
8.000000-02	4.379171-01	1.775627-02	7.607034-01	4.048667-01	4.350266-02	4.502123-01
6.000000-02	4.372262-01	1.332521-02	7.473768-01	4.042287-01	3.264678-02	4.423252-01
4.000000-02	4.367453-01	8.954022-03	7.295533-01	4.037834-01	2.193736-02	4.317766-01
2.000000-02	4.364666-01	4.368586-03	7.103330-01	4.035258-01	1.192804-02	4.144947-01

TABLE 4 (Continued)

M = 1.6							
x	g	f	h	p/p _R	u/u _R	p/p _R	
1.000000+00	1.101562+00	5.078123+01	2.031745+00	1.000000+00	1.000000+00	1.000000+00	1.000000+00
5.907000+01	1.041884+00	4.909670+01	1.943760+00	9.458238+01	9.668276+01	9.668276+01	9.668276+01
9.600000+01	9.863014+01	4.742794+01	1.860693+00	8.953659+01	9.339660+01	9.339660+01	9.339660+01
3.400000+01	9.345568+01	4.577679+01	1.782300+00	8.493521+01	9.014559+01	9.014559+01	9.014559+01
9.200000+01	8.864076+01	4.414513+01	1.708233+00	8.046821+01	8.693198+01	8.693198+01	8.693198+01
9.000000+01	8.416261+01	4.253492+01	1.638693+00	7.640294+01	8.376111+01	8.376111+01	8.376111+01
8.800000+01	7.995982+01	4.094816+01	1.573033+00	7.262395+01	8.063641+01	8.063641+01	8.063641+01
8.600000+01	7.613225+01	3.938685+01	1.511217+00	6.911298+01	7.756182+01	7.756182+01	7.756182+01
8.400000+01	7.254097+01	3.785296+01	1.453037+00	6.585280+01	7.454124+01	7.454124+01	7.454124+01
8.200000+01	6.922081+01	3.634842+01	1.398312+00	6.282721+01	7.157845+01	7.157845+01	7.157845+01
8.000000+01	6.611680+01	3.487504+01	1.346862+00	6.002093+01	6.867703+01	6.867703+01	6.867703+01
7.800000+01	6.325117+01	3.343452+01	1.298515+00	5.741951+01	6.584031+01	6.584031+01	6.584031+01
7.600000+01	6.055622+01	3.202637+01	1.253100+00	5.500934+01	6.307127+01	6.307127+01	6.307127+01
7.400000+01	5.813777+01	3.065729+01	1.210453+00	5.277756+01	6.037249+01	6.037249+01	6.037249+01
7.200000+01	5.586245+01	2.932417+01	1.170420+00	5.071201+01	5.774608+01	5.774608+01	5.774608+01
7.000000+01	5.375761+01	2.802802+01	1.132842+00	4.860124+01	5.519365+01	5.519365+01	5.519365+01
6.800000+01	5.181135+01	2.676998+01	1.097571+00	4.703442+01	5.271628+01	5.271628+01	5.271628+01
6.600000+01	5.001246+01	2.555232+01	1.064462+00	4.540139+01	5.031450+01	5.031450+01	5.031450+01
6.400000+01	4.835039+01	2.436505+01	1.033377+00	4.389256+01	4.798830+01	4.798830+01	4.798830+01
6.200000+01	4.681525+01	2.322588+01	1.004181+00	4.249895+01	4.573714+01	4.573714+01	4.573714+01
6.000000+01	4.539779+01	2.212031+01	9.767437+01	4.121218+01	4.356000+01	4.356000+01	4.356000+01
5.800000+01	4.403893+01	2.105158+01	9.509419+01	4.002439+01	4.145543+01	4.145543+01	4.145543+01
5.600000+01	4.288192+01	2.001875+01	9.266568+01	3.892827+01	3.942156+01	3.942156+01	3.942156+01
5.400000+01	4.176799+01	1.902072+01	9.037751+01	3.791704+01	3.745619+01	3.745619+01	3.745619+01
5.200000+01	4.074066+01	1.805621+01	8.821858+01	3.698443+01	3.555686+01	3.555686+01	3.555686+01
5.000000+01	3.979354+01	1.712387+01	8.617949+01	3.612463+01	3.372087+01	3.372087+01	3.372087+01
4.800000+01	3.892073+01	1.622224+01	8.424954+01	3.533230+01	3.194535+01	3.194535+01	3.194535+01
4.600000+01	3.811683+01	1.534980+01	8.241969+01	3.460252+01	3.022731+01	3.022731+01	3.022731+01
4.400000+01	3.737586+01	1.450499+01	8.068100+01	3.393079+01	2.856368+01	2.856368+01	2.856368+01
4.200000+01	3.669632+01	1.368524+01	7.902491+01	3.331298+01	2.695138+01	2.695138+01	2.695138+01
4.000000+01	3.607101+01	1.289199+01	7.744314+01	3.274532+01	2.538729+01	2.538729+01	2.538729+01
3.800000+01	3.549715+01	1.212067+01	7.592768+01	3.222437+01	2.386831+01	2.386831+01	2.386831+01
3.600000+01	3.497131+01	1.137064+01	7.447066+01	3.174700+01	2.239143+01	2.239143+01	2.239143+01
3.400000+01	3.449032+01	1.064051+01	7.306426+01	3.131036+01	2.095364+01	2.095364+01	2.095364+01
3.200000+01	3.405134+01	9.928765+02	7.170061+01	3.091185+01	1.955203+01	1.955203+01	1.955203+01
3.000000+01	3.365177+01	9.253951+02	7.037164+01	3.054912+01	1.818379+01	1.818379+01	1.818379+01
2.800000+01	3.328925+01	8.554686+02	6.906891+01	3.022003+01	1.684616+01	1.684616+01	1.684616+01
2.600000+01	3.296165+01	7.889521+02	6.778933+01	2.992264+01	1.553649+01	1.553649+01	1.553649+01
2.400000+01	3.266704+01	7.237458+02	6.650492+01	2.965519+01	1.425223+01	1.425223+01	1.425223+01
2.200000+01	3.240364+01	6.596947+02	6.522231+01	2.941607+01	1.299092+01	1.299092+01	1.299092+01
2.000000+01	3.216985+01	5.966885+02	6.392218+01	2.920384+01	1.175018+01	1.175018+01	1.175018+01
1.800000+01	3.196421+01	5.346122+02	6.258833+01	2.901716+01	1.052775+01	1.052775+01	1.052775+01
1.600000+01	3.178539+01	4.733561+02	6.120022+01	2.885482+01	9.321477+02	9.321477+02	9.321477+02
1.400000+01	3.163215+01	4.128165+02	5.973074+01	2.871571+01	8.129310+02	8.129310+02	8.129310+02
1.200000+01	3.150334+01	3.528996+02	5.814213+01	2.859878+01	6.949405+02	6.949405+02	6.949405+02
1.000000+01	3.139789+01	2.935243+02	5.637546+01	2.850305+01	5.780172+02	5.780172+02	5.780172+02
2.000000+02	3.131474+01	2.345429+02	5.434993+01	2.842757+01	4.620661+02	4.620661+02	4.620661+02
6.000000+02	3.125282+01	1.763041+02	5.189492+01	2.837136+01	3.471836+02	3.471836+02	3.471836+02
4.000000+02	3.121101+01	1.189902+02	4.936640+01	2.833340+01	2.343192+02	2.343192+02	2.343192+02
2.000000+02	3.118800+01	6.714184+03	4.353303+01	2.831252+01	1.322178+02	1.322178+02	1.322178+02

TABLE 4 (Continued)

M = 1.8						
x	g	f	h	P/P _R	u/u _R	P/P _R
1.000000+00	1.115226+00	5.761317-01	2.359224+00	1.000000+00	1.000000+00	1.000000+00
9.200000-01	1.042658+00	5.579480-01	2.227870+00	9.349299-01	9.684383-01	9.443232-01
9.600000-01	9.758154-01	5.398886-01	2.105288+00	8.749932-01	9.370927-01	8.923648-01
9.400000-01	9.142583-01	5.219716-01	1.990920+00	8.197962-01	9.059935-01	8.438877-01
9.200000-01	8.575817-01	5.042150-01	1.884239+00	7.689755-01	8.751731-01	7.986691-01
9.000000-01	8.054116-01	4.866387-01	1.784752+00	7.221957-01	8.446656-01	7.564999-01
8.800000-01	7.574023-01	4.692630-01	1.691997+00	6.791467-01	8.145064-01	7.171527-01
8.600000-01	7.132347-01	4.521092-01	1.605536+00	6.395425-01	7.847324-01	6.805358-01
8.400000-01	6.726137-01	4.351988-01	1.524960+00	6.031186-01	7.553808-01	6.463823-01
8.200000-01	6.352669-01	4.185534-01	1.449884+00	5.696305-01	7.264891-01	6.145597-01
8.000000-01	6.009419-01	4.021942-01	1.379942+00	5.388519-01	6.980942-01	5.849137-01
7.800000-01	5.694053-01	3.861420-01	1.314792+00	5.105736-01	6.702321-01	5.537293-01
7.600000-01	5.404410-01	3.704161-01	1.254109+00	4.846021-01	6.429364-01	5.315770-01
7.400000-01	5.139487-01	3.550345-01	1.197586+00	4.607574-01	6.162384-01	5.076188-01
7.200000-01	4.894429-01	3.400132-01	1.144934+00	4.388732-01	5.901658-01	4.853012-01
7.000000-01	4.670516-01	3.253660-01	1.095878+00	4.187953-01	5.647424-01	4.645077-01
6.800000-01	4.465152-01	3.111039-01	1.050157+00	4.003808-01	5.399875-01	4.451282-01
6.600000-01	4.278860-01	2.972351-01	1.007526+00	3.834971-01	5.159152-01	4.270583-01
6.400000-01	4.104273-01	2.837648-01	9.677520-01	3.683215-01	4.925345-01	4.101904-01
6.200000-01	3.946124-01	2.706951-01	9.306152-01	3.538406-01	4.698493-01	3.944582-01
6.000000-01	3.801244-01	2.580251-01	8.959074-01	3.408496-01	4.478579-01	3.797467-01
5.800000-01	3.668555-01	2.457511-01	8.634327-01	3.289516-01	4.265537-01	3.659817-01
5.600000-01	3.547063-01	2.338666-01	8.330063-01	3.183577-01	4.059255-01	3.532850-01
5.400000-01	3.435854-01	2.223626-01	8.044542-01	3.080858-01	3.859579-01	3.409826-01
5.200000-01	3.334090-01	2.112282-01	7.776125-01	2.989609-01	3.666317-01	3.296353-01
5.000000-01	3.241005-01	2.004504-01	7.523273-01	2.906141-01	3.479245-01	3.180877-01
4.800000-01	3.155896-01	1.900148-01	7.284535-01	2.829826-01	3.298113-01	3.067683-01
4.600000-01	3.078125-01	1.799059-01	7.058544-01	2.760090-01	3.122652-01	2.991893-01
4.400000-01	3.007107-01	1.701072-01	6.844008-01	2.696410-01	2.952574-01	2.900953-01
4.200000-01	2.942313-01	1.606016-01	6.639702-01	2.638311-01	2.767583-01	2.814338-01
4.000000-01	2.883263-01	1.513718-01	6.444459-01	2.585361-01	2.627361-01	2.731502-01
3.800000-01	2.829518-01	1.423999-01	6.257159-01	2.537170-01	2.471556-01	2.652211-01
3.600000-01	2.780684-01	1.336685-01	6.076717-01	2.493381-01	2.320103-01	2.575727-01
3.400000-01	2.736402-01	1.251600-01	5.902069-01	2.453674-01	2.172420-01	2.501700-01
3.200000-01	2.696347-01	1.168572-01	5.732161-01	2.417758-01	2.028507-01	2.429681-01
3.000000-01	2.660225-01	1.087431-01	5.565926-01	2.385368-01	1.887470-01	2.359220-01
2.800000-01	2.627769-01	1.008013-01	5.402272-01	2.356265-01	1.749623-01	2.289852-01
2.600000-01	2.598736-01	9.301365-02	5.240040-01	2.330232-01	1.614485-01	2.221367-01
2.400000-01	2.572908-01	8.537041-02	5.077985-01	2.307072-01	1.481786-01	2.157297-01
2.200000-01	2.550082-01	7.785030-02	4.914721-01	2.286605-01	1.351257-01	2.093194-01
2.000000-01	2.530074-01	7.044029-02	4.748661-01	2.268664-01	1.222642-01	2.031207-01
1.800000-01	2.512715-01	6.312547-02	4.577922-01	2.253099-01	1.093676-01	1.964036-01
1.600000-01	2.497846-01	5.589369-02	4.400188-01	2.239766-01	9.701725-02	1.895100-01
1.400000-01	2.485320-01	4.871482-02	4.212483-01	2.226534-01	8.456357-02	1.765530-01
1.200000-01	2.474993-01	4.159409-02	4.010603-01	2.217774-01	7.219545-02	1.600036-01
1.000000-01	2.466727-01	3.448788-02	3.789448-01	2.211562-01	5.986110-02	1.406227-01
0.800000-02	2.460380-01	2.735626-02	3.539726-01	2.206171-01	4.748264-02	1.150037-01
6.000000-02	2.455802-01	2.008937-02	3.247240-01	2.202066-01	3.486941-02	8.376450-02
4.000000-02	2.452819-01	1.227481-02	2.866160-01	2.199391-01	2.130555-02	4.222354-02
2.000000-02	2.451138-01	7.042990-04	2.422289-01	2.197884-01	1.222462-02	1.027143-02

TABLE 4 (Continued)

M = 2.0						
x	g	f	h	p/p _R	u/u _R	p/p _R
1.000000+00	1.125300+00	6.250001-01	2.666666+00	1.000000+00	1.000000+00	1.000000+00
9.800000-01	1.040452+00	6.055693-01	2.482900+00	9.248466-01	9.689107-01	9.310873-01
9.600000-01	9.635949-01	5.862580-01	2.314029+00	8.565288-01	9.380125-01	8.677604-01
9.400000-01	8.937205-01	5.670850-01	2.158827+00	7.944182-01	9.073357-01	8.095600-01
9.200000-01	8.301889-01	5.480706-01	2.016173+00	7.379457-01	8.769127-01	7.560646-01
9.000000-01	7.724203-01	5.292363-01	1.885033+00	6.865958-01	8.467779-01	7.068872-01
8.800000-01	7.195890-01	5.106047-01	1.764451+00	6.399014-01	8.169674-01	6.616725-01
8.600000-01	6.721190-01	4.921992-01	1.652585+00	5.974391-01	7.875185-01	6.200941-01
8.400000-01	6.286784-01	4.740437-01	1.551606+00	5.588252-01	7.584697-01	5.818520-01
8.200000-01	5.891754-01	4.561624-01	1.457788+00	5.257115-01	7.298596-01	5.466703-01
8.000000-01	5.532544-01	4.385791-01	1.371454+00	4.917817-01	7.031726-01	5.142940-01
7.800000-01	5.205923-01	4.213171-01	1.291979+00	4.627487-01	6.774107-01	4.844919-01
7.600000-01	4.908955-01	4.043985-01	1.218788+00	4.363516-01	6.470374-01	4.570454-01
7.400000-01	4.638568-01	3.878436-01	1.151351+00	4.123527-01	6.205496-01	4.317565-01
7.200000-01	4.393532-01	3.716706-01	1.089178+00	3.905362-01	5.946728-01	4.084414-01
7.000000-01	4.170433-01	3.558550-01	1.031815+00	3.707051-01	5.694319-01	3.869304-01
6.800000-01	3.967655-01	3.403236-01	9.788441-01	3.526804-01	5.448472-01	3.670664-01
6.600000-01	3.783361-01	3.255835-01	9.298794-01	3.362987-01	5.209335-01	3.487047-01
6.400000-01	3.615880-01	3.110627-01	8.845632-01	3.214115-01	4.977002-01	3.317111-01
6.200000-01	3.463689-01	2.969695-01	8.425655-01	3.078834-01	4.751511-01	3.159620-01
6.000000-01	3.325403-01	2.833029-01	8.035814-01	2.955914-01	4.532845-01	3.013429-01
5.800000-01	3.199764-01	2.700553-01	7.673295-01	2.844235-01	4.320931-01	2.877485-01
5.600000-01	3.085630-01	2.572280-01	7.335503-01	2.742782-01	4.115652-01	2.750813-01
5.400000-01	2.981964-01	2.448026-01	7.020043-01	2.650635-01	3.916841-01	2.632515-01
5.200000-01	2.887828-01	2.327686-01	6.724706-01	2.566959-01	3.724297-01	2.521764-01
5.000000-01	2.802374-01	2.211115-01	6.447455-01	2.490999-01	3.537784-01	2.417795-01
4.800000-01	2.724833-01	2.098150-01	6.186407-01	2.422074-01	3.357039-01	2.319902-01
4.600000-01	2.654515-01	1.988614-01	5.939824-01	2.359589-01	3.181781-01	2.227433-01
4.400000-01	2.590795-01	1.882320-01	5.706091-01	2.302929-01	3.011711-01	2.139783-01
4.200000-01	2.533111-01	1.779077-01	5.483707-01	2.251654-01	2.846522-01	2.056389-01
4.000000-01	2.480956-01	1.678680-01	5.271268-01	2.205294-01	2.685900-01	1.976725-01
3.800000-01	2.433875-01	1.580958-01	5.067455-01	2.163444-01	2.529532-01	1.900295-01
3.600000-01	2.391456-01	1.485689-01	4.871015-01	2.125738-01	2.377102-01	1.826630-01
3.400000-01	2.353329-01	1.392690-01	4.680750-01	2.091848-01	2.228304-01	1.755281-01
3.200000-01	2.319160-01	1.301771-01	4.495498-01	2.061475-01	2.082833-01	1.685811-01
3.000000-01	2.288647-01	1.212747-01	4.314116-01	2.034352-01	1.940395-01	1.617793-01
2.800000-01	2.261516-01	1.125441-01	4.135463-01	2.010236-01	1.800705-01	1.550796-01
2.600000-01	2.237519-01	1.039681-01	3.958371-01	1.988906-01	1.663489-01	1.484389-01
2.400000-01	2.216430-01	9.553019-02	3.781622-01	1.970160-01	1.528483-01	1.418108-01
2.200000-01	2.198039-01	8.721478-02	3.603909-01	1.953812-01	1.395436-01	1.351466-01
2.000000-01	2.182155-01	7.900697-02	3.423790-01	1.939693-01	1.264111-01	1.283921-01
1.800000-01	2.168597-01	7.089279-02	3.239614-01	1.927642-01	1.134284-01	1.214855-01
1.600000-01	2.157198-01	6.285931-02	3.049425-01	1.917509-01	1.005749-01	1.143535-01
1.400000-01	2.147795-01	5.489487-02	2.850814-01	1.909151-01	8.783177-02	1.069055-01
1.200000-01	2.140232-01	4.698965-02	2.640627-01	1.902429-01	7.518343-02	9.902347-02
1.000000-01	2.134353-01	3.913702-02	2.414520-01	1.897202-01	6.261923-02	9.054446-02
8.000000-02	2.129999-01	3.133747-02	2.185993-01	1.893332-01	5.013995-02	8.122472-02
6.000000-02	2.127004-01	2.361292-02	1.884172-01	1.890670-01	3.778067-02	7.065641-02
4.000000-02	2.125187-01	1.608099-02	1.547057-01	1.889055-01	2.572957-02	5.801460-02
2.000000-02	2.124337-01	9.732621-03	1.081499-01	1.888300-01	1.557219-02	4.055619-02

TABLE 4 (Continued)

M = 2.4						
x	g	f	h	P/P _R	u/u _R	ρ/ρ _R
1.000000+00	1.137731+00	6.686574-01	3.211895+00	1.000000+00	1.000000+00	1.000000+00
9.800000-01	1.031679+00	6.668322-01	2.900582+00	9.067859-01	9.683077-01	9.330749-01
9.600000-01	9.380847-01	6.451688-01	2.625055+00	8.245221-01	9.368502-01	8.172914-01
9.400000-01	8.553851-01	6.236942-01	2.380857+00	7.518339-01	9.056669-01	7.412624-01
9.200000-01	7.822266-01	6.024369-01	2.164122+00	6.875318-01	8.747992-01	6.737833-01
9.000000-01	7.174360-01	5.814270-01	1.971483+00	6.305847-01	8.442907-01	6.130066-01
8.800000-01	6.599953-01	5.606953-01	1.800012+00	5.800976-01	8.141861-01	5.604204-01
8.600000-01	6.090191-01	5.402731-01	1.647154+00	5.352925-01	7.845310-01	5.126293-01
8.400000-01	5.637368-01	5.201913-01	1.510676+00	4.954920-01	7.553703-01	4.733386-01
8.200000-01	5.234761-01	5.004803-01	1.388634+00	4.601052-01	7.267479-01	4.323403-01
8.000000-01	4.876496-01	4.811686-01	1.279310+00	4.286158-01	6.987054-01	3.983037-01
7.800000-01	4.557434-01	4.622825-01	1.181209+00	4.005721-01	6.712809-01	3.677605-01
7.600000-01	4.273068-01	4.438452-01	1.093011+00	3.755780-01	6.445080-01	3.403010-01
7.400000-01	4.019443-01	4.258762-01	1.013560+00	3.532858-01	6.184152-01	3.155643-01
7.200000-01	3.793080-01	4.083909-01	9.418330-01	3.333898-01	5.930248-01	2.932327-01
7.000000-01	3.590917-01	3.914000-01	8.769313-01	3.156208-01	5.683523-01	2.730261-01
6.800000-01	3.410255-01	3.749096-01	8.180608-01	2.997416-01	5.444066-01	2.546972-01
6.600000-01	3.248714-01	3.589209-01	7.645208-01	2.855432-01	5.211893-01	2.380279-01
6.400000-01	3.104195-01	3.434304-01	7.156919-01	2.728408-01	4.986957-01	2.228254-01
6.200000-01	2.974843-01	3.284306-01	6.710272-01	2.614714-01	4.769143-01	2.089194-01
6.000000-01	2.859019-01	3.139096-01	6.300431-01	2.512912-01	4.558284-01	1.961593-01
5.800000-01	2.755278-01	2.998525-01	5.923119-01	2.421730-01	4.354161-01	1.844119-01
5.600000-01	2.662342-01	2.862414-01	5.574552-01	2.340044-01	4.156513-01	1.735596-01
5.400000-01	2.579081-01	2.730558-01	5.251384-01	2.266863-01	3.965046-01	1.634980-01
5.200000-01	2.504497-01	2.602740-01	4.950649-01	2.201308-01	3.779441-01	1.541348-01
5.000000-01	2.437708-01	2.478725-01	4.669717-01	2.142604-01	3.599358-01	1.453882-01
4.800000-01	2.377933-01	2.358273-01	4.406236-01	2.090063-01	3.424450-01	1.371855-01
4.600000-01	2.324479-01	2.241140-01	4.158193-01	2.043082-01	3.254362-01	1.294623-01
4.400000-01	2.276734-01	2.127082-01	3.923681-01	2.001117-01	3.088737-01	1.221609-01
4.200000-01	2.234153-01	2.015854-01	3.701075-01	1.963691-01	2.927224-01	1.152302-01
4.000000-01	2.196232-01	1.907222-01	3.488902-01	1.930373-01	2.769478-01	1.086244-01
3.800000-01	2.162597-01	1.800952-01	3.285842-01	1.900797-01	2.615164-01	1.023023-01
3.600000-01	2.132802-01	1.696824-01	3.090709-01	1.874609-01	2.463959-01	9.622695-02
3.400000-01	2.106519-01	1.594622-01	2.902433-01	1.851508-01	2.315552-01	9.036510-02
3.200000-01	2.083436-01	1.494143-01	2.720043-01	1.831220-01	2.169647-01	8.468654-02
3.000000-01	2.063269-01	1.395194-01	2.542660-01	1.813484-01	2.025962-01	7.916384-02
2.800000-01	2.045760-01	1.297590-01	2.369479-01	1.798104-01	1.884231-01	7.377197-02
2.600000-01	2.030672-01	1.201158-01	2.199761-01	1.784843-01	1.744202-01	6.848793-02
2.400000-01	2.017787-01	1.105734-01	2.032825-01	1.773518-01	1.605638-01	6.329051-02
2.200000-01	2.006902-01	1.011166-01	1.868039-01	1.763951-01	1.468314-01	5.816000-02
2.000000-01	1.997828-01	9.173044-02	1.704808-01	1.755975-01	1.332019-01	5.307792-02
1.800000-01	1.990385-01	8.240097-02	1.542571-01	1.749433-01	1.196545-01	4.802681-02
1.600000-01	1.984401-01	7.311404-02	1.380791-01	1.744174-01	1.061690-01	4.298990-02
1.400000-01	1.979713-01	6.385460-02	1.218944-01	1.740093-01	9.272333-02	3.795093-02
1.200000-01	1.976159-01	5.460442-02	1.056516-01	1.736929-01	7.929113-02	3.289385-02
1.000000-01	1.973582-01	4.533639-02	8.529976-02	1.734664-01	6.583301-02	2.780282-02
8.000000-02	1.971827-01	3.599787-02	7.279214-02	1.733122-01	5.227254-02	2.266330-02
6.000000-02	1.970738-01	2.644967-02	5.610747-02	1.732165-01	3.840759-02	1.746865-02
4.000000-02	1.970156-01	1.614805-02	3.938402-02	1.731653-01	2.364860-02	1.226192-02
2.000000-02	1.969904-01	8.106870-04	2.403220-02	1.731432-01	1.177199-03	7.482249-03

TABLE 4 (Continued)

M = 3.0

x	g	f	h	p/p _R	u/u _R	p/p _R
1.000000+00	1.148148+00	7.407407-01	3.857142+00	1.000000+00	1.000000+00	1.000000+00
9.800000-01	1.016010+00	7.157386-01	3.324603+00	8.849119-01	9.652475-01	8.619341-01
9.600000-01	9.045829-01	6.910580-01	2.881312+00	7.878625-01	9.329284-01	7.470070-01
9.400000-01	8.102287-01	6.667460-01	2.510371+00	7.056831-01	9.001071-01	6.508371-01
9.200000-01	7.300199-01	6.428508-01	2.198382+00	6.358238-01	8.678487-01	5.699539-01
9.000000-01	6.615879-01	6.194197-01	1.934662+00	5.762217-01	8.362166-01	5.015790-01
8.800000-01	6.030055-01	5.964973-01	1.710648+00	5.251984-01	8.052713-01	4.433013-01
8.600000-01	5.526959-01	5.741247-01	1.519438+00	4.819812-01	7.750684-01	3.939284-01
8.400000-01	5.093663-01	5.523378-01	1.355443+00	4.436416-01	7.456561-01	3.514112-01
8.200000-01	4.719436-01	5.311663-01	1.214113+00	4.110477-01	7.170745-01	3.147701-01
8.000000-01	4.395407-01	5.106323-01	1.091729+00	3.828258-01	6.893536-01	2.830409-01
7.800000-01	4.114173-01	4.907503-01	9.852350-01	3.583312-01	6.625129-01	2.554321-01
7.600000-01	3.869538-01	4.715265-01	8.921242-01	3.357024-01	6.365608-01	2.312915-01
7.400000-01	3.656301-01	4.529594-01	8.103077-01	3.184521-01	6.114952-01	2.100798-01
7.200000-01	3.470078-01	4.350398-01	7.380328-01	3.022326-01	5.873037-01	1.913406-01
7.000000-01	3.307165-01	4.177518-01	6.739541-01	2.880434-01	5.639650-01	1.747289-01
6.800000-01	3.164421-01	4.010741-01	6.167829-01	2.756108-01	5.414501-01	1.599070-01
6.600000-01	3.039179-01	3.849804-01	5.655507-01	2.647027-01	5.197235-01	1.466243-01
6.400000-01	2.929169-01	3.694408-01	5.194146-01	2.551212-01	4.987451-01	1.346631-01
6.200000-01	2.832449-01	3.544230-01	4.776703-01	2.466972-01	4.784711-01	1.238405-01
6.000000-01	2.747361-01	3.398930-01	4.397235-01	2.392863-01	4.588555-01	1.140024-01
5.800000-01	2.672479-01	3.258158-01	4.050730-01	2.327643-01	4.398513-01	1.050189-01
5.600000-01	2.606578-01	3.121565-01	3.732946-01	2.270246-01	4.214113-01	9.678015-02
5.400000-01	2.548599-01	2.988805-01	3.440302-01	2.219748-01	4.034887-01	8.919301-02
5.200000-01	2.497626-01	2.859541-01	3.169745-01	2.175352-01	3.860301-01	8.217859-02
5.000000-01	2.452862-01	2.733450-01	2.918694-01	2.136364-01	3.590158-01	7.566065-02
4.800000-01	2.413613-01	2.610221-01	2.684951-01	2.102179-01	3.523798-01	6.960985-02
4.600000-01	2.379270-01	2.489560-01	2.466649-01	2.072267-01	3.360907-01	6.395017-02
4.400000-01	2.349298-01	2.371193-01	2.262202-01	2.046163-01	3.201110-01	5.864968-02
4.200000-01	2.323224-01	2.254860-01	2.070262-01	2.028453-01	3.044061-01	5.367348-02
4.000000-01	2.300629-01	2.140322-01	1.889692-01	2.003773-01	2.889435-01	4.899202-02
3.800000-01	2.281137-01	2.027358-01	1.719530-01	1.986797-01	2.736933-01	4.458041-02
3.600000-01	2.264412-01	1.915762-01	1.558971-01	1.972230-01	2.586279-01	4.041776-02
3.400000-01	2.250153-01	1.805350-01	1.407345-01	1.959811-01	2.437222-01	3.648673-02
3.200000-01	2.238085-01	1.695950-01	1.264104-01	1.949300-01	2.289533-01	3.277307-02
3.000000-01	2.227959-01	1.587410-01	1.128803-01	1.940480-01	2.143003-01	2.926527-02
2.800000-01	2.219547-01	1.479590-01	1.001095-01	1.933134-01	1.957446-01	2.595432-02
2.600000-01	2.212641-01	1.372366-01	0.807153-02	1.927139-01	1.852695-01	2.283336-02
2.400000-01	2.207049-01	1.265630-01	7.674791-02	1.922269-01	1.708600-01	1.989761-02
2.200000-01	2.202596-01	1.159282-01	6.612727-02	1.918390-01	1.555030-01	1.714411-02
2.000000-01	2.199117-01	1.053237-01	5.620501-02	1.915360-01	1.421869-01	1.457167-02
1.800000-01	2.196464-01	9.474181-02	4.698303-02	1.913050-01	1.279014-01	1.218079-02
1.600000-01	2.194500-01	8.417579-02	3.846967-02	1.911339-01	1.136373-01	9.973620-03
1.400000-01	2.193097-01	7.361909-02	3.067997-02	1.910117-01	9.938578-02	7.954066-03
1.200000-01	2.192143-01	6.306461-02	2.363628-02	1.909286-01	8.513730-02	6.127924-03
1.000000-01	2.191533-01	5.250375-02	1.736970-02	1.908754-01	7.008800-02	4.503255-03
8.000000-02	2.191176-01	4.191901-02	1.192279-02	1.908444-01	5.659066-02	3.091093-03
6.000000-02	2.190993-01	3.126662-02	7.355576-03	1.908284-01	4.220994-02	1.507001-03
4.000000-02	2.190917-01	2.037480-02	3.761700-03	1.908218-01	2.750599-02	9.752556-04
2.000000-02	2.190896-01	7.888567-03	1.333659-03	1.908200-01	1.064957-02	3.457636-04

TABLE 4 (Continued)

M = 3.5

x	g	f	h	P/P _R	u/u _R	P/P _R
1.000000+00	1.153061+00	7.653062-01	4.260870+00	1.000000+00	1.000000+00	1.000000+00
9.800000-01	1.004489+00	7.382086-01	3.544828+00	8.711500-01	9.645925-01	8.319494-01
9.600000-01	8.834371-01	7.116231-01	2.976353+00	7.661667-01	9.298541-01	6.985217-01
9.400000-01	7.840785-01	6.856159-01	2.520590+00	6.799973-01	8.958713-01	5.915668-01
9.200000-01	7.019780-01	6.602491-01	2.151785+00	6.087951-01	8.627255-01	5.050106-01
9.000000-01	5.337237-01	6.355788-01	1.850696+00	5.496011-01	8.304676-01	4.343468-01
8.800000-01	5.766645-01	6.116519-01	1.602796+00	5.001162-01	7.992251-01	3.761683-01
8.600000-01	5.287223-01	5.885050-01	1.397012+00	4.585380-01	7.689798-01	3.278702-01
8.400000-01	4.882535-01	5.661626-01	1.224830+00	4.234411-01	7.397858-01	2.874602-01
8.200000-01	4.539482-01	5.446369-01	1.079649+00	3.936896-01	7.116589-01	2.533869-01
8.000000-01	4.247547-01	5.239277-01	9.563100-01	3.603714-01	6.845989-01	2.244401-01
7.800000-01	3.998235-01	5.040233-01	8.507594-01	3.457496-01	6.585904-01	1.996678-01
7.600000-01	3.784638-01	4.849018-01	7.597832-01	3.282233-01	6.326049-01	1.783165-01
7.400000-01	3.601112-01	4.665327-01	6.808283-01	3.123088-01	6.096027-01	1.597862-01
7.200000-01	3.443020-01	4.488789-01	6.118472-01	2.985982-01	5.865351-01	1.435958-01
7.000000-01	3.306536-01	4.319966-01	5.511932-01	2.867615-01	5.643475-01	1.293617-01
6.800000-01	3.188488-01	4.155465-01	4.975348-01	2.765237-01	5.429807-01	1.167684-01
6.600000-01	3.086233-01	3.997757-01	4.497903-01	2.676556-01	5.223735-01	1.055630-01
6.400000-01	2.997562-01	3.845390-01	4.070770-01	2.599656-01	5.024642-01	9.553846-02
6.200000-01	2.920619-01	3.697896-01	3.686717-01	2.532927-01	4.831917-01	8.652499-02
6.000000-01	2.859336-01	3.554321-01	3.339796-01	2.475008-01	4.644956-01	7.838275-02
5.800000-01	2.795884-01	3.415731-01	3.025091-01	2.424749-01	4.463221-01	7.099703-02
5.600000-01	2.745628-01	3.280212-01	2.738532-01	2.381164-01	4.286143-01	6.427166-02
5.400000-01	2.702099-01	3.147878-01	2.476732-01	2.343414-01	4.113227-01	5.812737-02
5.200000-01	2.664461-01	3.018369-01	2.236866-01	2.310771-01	3.944003-01	5.249787-02
5.000000-01	2.631989-01	2.891352-01	2.016573-01	2.282610-01	3.778034-01	4.732772-02
4.800000-01	2.604055-01	2.766521-01	1.813870-01	2.258384-01	3.614921-01	4.257042-02
4.600000-01	2.580107-01	2.643596-01	1.627093-01	2.227615-01	3.454289-01	3.818686-02
4.400000-01	2.559662-01	2.522324-01	1.454836-01	2.219884-01	3.295836-01	3.414411-02
4.200000-01	2.542292-01	2.402473-01	1.295914-01	2.204820-01	3.139232-01	3.041430-02
4.000000-01	2.527619-01	2.283839-01	1.149321-01	2.192095-01	2.984216-01	2.697385-02
3.800000-01	2.515305-01	2.166236-01	1.014203-01	2.181415-01	2.830548-01	2.380271-02
3.600000-01	2.505049-01	2.049499-01	8.898297-02	2.172521-01	2.678011-01	2.088376-02
3.400000-01	2.496580-01	1.933482-01	7.755765-02	2.165176-01	2.526417-01	1.820230-02
3.200000-01	2.489657-01	1.818058-01	6.705024-02	2.157172-01	2.375546-01	1.574567-02
3.000000-01	2.484061-01	1.703115-01	5.753364-02	2.154319-01	2.225403-01	1.350277-02
2.800000-01	2.479598-01	1.588553-01	4.884833-02	2.150448-01	2.075702-01	1.146393-02
2.600000-01	2.476092-01	1.474287-01	4.099118-02	2.147407-01	1.925402-01	9.620377-03
2.400000-01	2.473367-01	1.360244-01	3.393440-02	2.145061-01	1.777386-01	7.964194-03
2.200000-01	2.471342-01	1.246357-01	2.764463-02	2.143288-01	1.628573-01	6.480244-03
2.000000-01	2.469836-01	1.132566-01	2.209207-02	2.141981-01	1.479657-01	5.184972-03
1.800000-01	2.468756-01	1.018813-01	1.724776-02	2.141046-01	1.331249-01	4.047944-03
1.600000-01	2.468014-01	9.050325-02	1.308282-02	2.140402-01	1.182576-01	3.070456-03
1.400000-01	2.467525-01	7.911421-02	9.567750-03	2.139977-01	1.033759-01	2.245492-03
1.200000-01	2.467221-01	6.770098-02	6.671725-03	2.139713-01	8.846262-02	1.565813-03
1.000000-01	2.467046-01	5.523846-02	4.361807-03	2.139562-01	7.348491-02	1.023862-03
8.000000-02	2.466956-01	4.406860-02	2.602039-03	2.139484-01	5.836697-02	6.106826-04
6.000000-02	2.466916-01	3.252420-02	1.352376-03	2.139449-01	4.205020-02	3.173942-04
4.000000-02	2.466902-01	2.003189-02	5.673107-04	2.139437-01	2.617500-02	1.351440-04
2.000000-02	2.466899-01	9.107860-04	1.583817-04	2.139434-01	1.242360-03	5.421203-05

TABLE 4 (Continued)

M = 4.0							
x	g	f	h	p/p _R	u/u _R	p/p _R	
1.000000+00	1.156250+00	7.812500-01	4.571429+00	1.000000+00	1.000000+00	1.000000+00.	
9.800000-01	9.951993-01	7.525464-01	3.688784+00	8.607129-01	9.622594-01	8.069214-01	
9.600000-01	8.677928-01	7.245676-01	3.015999+00	7.505235-01	9.274465-01	6.597497-01	
9.400000-01	7.659172-01	6.973938-01	2.495530+00	6.624148-01	8.926640-01	5.458571-01	
9.200000-01	6.836784-01	6.710942-01	2.087333+00	5.912895-01	8.590005-01	4.866042-01	
9.000000-01	6.167275-01	6.457231-01	1.763068+00	5.333859-01	8.265255-01	3.856710-01	
8.800000-01	5.618088-01	6.213178-01	1.502357+00	4.855887-01	7.952867-01	3.286407-01	
8.600000-01	5.164539-01	5.978973-01	1.290349+00	4.456628-01	7.653085-01	2.822638-01	
8.400000-01	4.787686-01	5.754624-01	1.116075+00	4.140702-01	7.365919-01	2.441414-01	
8.200000-01	4.472846-01	5.539972-01	9.713430-01	3.868408-01	7.091164-01	2.124813-01	
8.000000-01	4.208524-01	5.334712-01	8.499698-01	3.639805-01	6.828431-01	1.859399-01	
7.800000-01	3.985646-01	5.138419-01	7.472426-01	3.447045-01	6.577176-01	1.634593-01	
7.600000-01	3.796990-01	4.950580-01	6.595374-01	3.280884-01	6.336742-01	1.442728-01	
7.400000-01	3.636773-01	4.770623-01	5.840443-01	3.145317-01	6.106398-01	1.277597-01	
7.200000-01	3.500324-01	4.597942-01	5.185677-01	3.027307-01	5.885366-01	1.134367-01	
7.000000-01	3.383853-01	4.431917-01	4.613789-01	2.926575-01	5.672854-01	1.009266-01	
6.800000-01	3.284259-01	4.271934-01	4.111072-01	2.840440-01	5.468076-01	8.992970-02	
6.600000-01	3.198993-01	4.117397-01	3.666588-01	2.766697-01	5.270258-01	8.020660-02	
6.400000-01	3.125945-01	3.967735-01	3.271545-01	2.703520-01	5.078761-01	7.156503-02	
6.200000-01	3.063355-01	3.822414-01	2.918835-01	2.649388-01	4.892689-01	6.384952-02	
6.000000-01	3.009751-01	3.680934-01	2.602678-01	2.603028-01	4.711595-01	5.693358-02	
5.800000-01	2.963889-01	3.542834-01	2.318341-01	2.563364-01	4.534828-01	5.071370-02	
5.600000-01	2.924714-01	3.407695-01	2.061926-01	2.529482-01	4.361850-01	4.510462-02	
5.400000-01	2.891324-01	3.275133-01	1.830206-01	2.500603-01	4.192170-01	4.030357-02	
5.200000-01	2.862946-01	3.144802-01	1.620492-01	2.476061-01	4.025347-01	3.544825-02	
5.000000-01	2.838911-01	3.016392-01	1.430525-01	2.455274-01	3.860981-01	3.129273-02	
4.800000-01	2.818638-01	2.889624-01	1.258399-01	2.437741-01	3.698719-01	2.752747-02	
4.600000-01	2.801623-01	2.764253-01	1.102491-01	2.423025-01	3.538244-01	2.411698-02	
4.400000-01	2.787422-01	2.640060-01	9.614074-02	2.410744-01	3.379277-01	2.103307-02	
4.200000-01	2.775647-01	2.516854-01	8.339421-02	2.400559-01	3.221574-01	1.824248-02	
4.000000-01	2.765955-01	2.394467-01	7.190389-02	2.392177-01	3.064918-01	1.572897-02	
3.800000-01	2.758044-01	2.272754-01	6.157632-02	2.385336-01	2.909125-01	1.346982-02	
3.600000-01	2.751649-01	2.151588-01	5.232781-02	2.379805-01	2.754032-01	1.144671-02	
3.400000-01	2.746535-01	2.030861-01	4.408250-02	2.375382-01	2.599503-01	9.643046-03	
3.200000-01	2.742495-01	1.910483-01	3.677065-02	2.371888-01	2.445418-01	8.043580-03	
3.000000-01	2.739348-01	1.790373-01	3.032741-02	2.369166-01	2.291678-01	6.634120-03	
2.800000-01	2.736936-01	1.670468-01	2.469163-02	2.367079-01	2.138198-01	5.401294-03	
2.600000-01	2.735120-01	1.550709-01	1.980505-02	2.365509-01	1.984908-01	4.323355-03	
2.400000-01	2.733783-01	1.431050-01	1.561152-02	2.364353-01	1.831744-01	3.415019-03	
2.200000-01	2.732822-01	1.311449-01	1.205642-02	2.363522-01	1.678654-01	2.637343-03	
2.000000-01	2.732153-01	1.191965-01	9.086259-03	2.362943-01	1.525587-01	1.987619-03	
1.800000-01	2.731702-01	1.072258-01	6.648218-03	2.362553-01	1.372490-01	1.454298-03	
1.600000-01	2.731411-01	9.525774-02	4.689936-03	2.362302-01	1.219299-01	1.023923-03	
1.400000-01	2.731234-01	8.327498-02	3.159266-03	2.362148-01	1.065920-01	6.920894-04	
1.200000-01	2.731133-01	7.126492-02	2.004113-03	2.362061-01	9.121910-02	4.383996-04	
1.000000-01	2.731081-01	5.920221-02	1.172312-03	2.362016-01	7.577883-02	2.564433-04	
8.000000-02	2.731057-01	4.702710-02	6.115446-04	2.361995-01	6.019468-02	1.337754-04	
6.000000-02	2.731047-01	3.456601-02	2.692704-04	2.361987-01	4.424449-02	5.890289-05	
4.000000-02	2.731045-01	2.111877-02	9.259236-05	2.361985-01	2.703203-02	2.024583-05	
2.000000-02	2.731044-01	1.130035-03	2.551694-05	2.361984-01	1.446445-03	2.581851-06	

TABLE 4 (Continued)

M = 5.0

x	g	f	h	p/p _R	u/u _R	p/p _R
1.000000+00	1.160000+00	8.000000+01	4.999999+00	1.000000+00	1.000000+00	1.000000+00
9.800000-01	9.822884-01	7.691753-01	3.850293+00	8.468004-01	9.614692-01	7.700587-01
9.600000-01	8.478767-01	7.394840-01	3.026242+00	7.309282-01	9.243550-01	6.052486-01
9.400000-01	7.444979-01	7.110159-01	2.421087+00	6.418086-01	8.887700-01	4.842175-01
9.200000-01	6.638399-01	6.838305-01	1.966917+00	5.722758-01	8.547882-01	3.933835-01
9.000000-01	6.001269-01	6.579542-01	1.619299+00	5.173508-01	8.2244 8-01	3.238598-01
8.800000-01	5.492571-01	6.333811-01	1.348429+00	4.734975-01	7.917264-01	2.896859-01
8.600000-01	5.082611-01	6.100766-01	1.133881+00	4.381561-01	7.625957-01	2.657763-01
8.400000-01	4.749529-01	5.879825-01	9.613781-01	4.094422-01	7.349781-01	1.922756-01
8.200000-01	4.476995-01	5.670234-01	8.207680-01	3.859478-01	7.087793-01	1.641536-01
8.000000-01	4.252647-01	5.471127-01	7.047174-01	3.666075-01	6.839909-01	1.409435-01
7.800000-01	4.067015-01	5.281578-01	6.078518-01	3.506048-01	6.601973-01	1.215704-01
7.600000-01	3.912765-01	5.100648-01	5.261790-01	3.373073-01	6.375810-01	1.052358-01
7.400000-01	3.784155-01	4.927414-01	4.566958-01	3.262203-01	6.159268-01	9.133916-02
7.200000-01	3.676646-01	4.760997-01	3.971161-01	3.169523-01	5.951247-01	7.702233-02
7.000000-01	3.586617-01	4.600573-01	3.456797-01	3.091911-01	5.750717-01	6.913594-02
6.800000-01	3.511150-01	4.445384-01	3.010159-01	3.026854-01	5.566730-01	6.020219-02
6.600000-01	3.447875-01	4.294738-01	2.620464-01	2.972306-01	5.368423-01	5.240229-02
6.400000-01	3.394849-01	4.148013-01	2.279135-01	2.926594-01	5.185017-01	4.558270-02
6.200000-01	3.350465-01	4.004654-01	1.979278-01	2.888332-01	5.008018-01	3.858557-02
6.000000-01	3.313387-01	3.864167-01	1.715296-01	2.856368-01	4.830209-01	3.240592-02
5.800000-01	3.282494-01	3.726117-01	1.482594-01	2.829737-01	4.657646-01	2.765168-02
5.600000-01	3.256842-01	3.590122-01	1.277358-01	2.807622-01	4.487633-01	2.354716-02
5.400000-01	3.235627-01	3.455852-01	1.096390-01	2.789334-01	4.319815-01	2.122730-02
5.200000-01	3.218166-01	3.323017-01	9.269743-02	2.774282-01	4.153772-01	1.872949-02
5.000000-01	3.203876-01	3.191370-01	7.967823-02	2.761962-01	3.989213-01	1.593565-02
4.800000-01	3.192254-01	3.060699-01	6.797916-02	2.751943-01	3.825874-01	1.347503-02
4.600000-01	3.182870-01	2.930823-01	5.862277-02	2.743854-01	3.663528-01	1.132456-02
4.400000-01	3.175355-01	2.801588-01	4.725171-02	2.737375-01	3.501985-01	9.450343-03
4.200000-01	3.169390-01	2.672866-01	3.912503-02	2.732233-01	3.3541082-01	7.825007-03
4.000000-01	3.164704-01	2.544550-01	3.211541-02	2.728193-01	3.186687-01	6.423082-03
3.800000-01	3.161064-01	2.416551-01	2.610691-02	2.725055-01	3.020689-01	5.221382-03
3.600000-01	3.158272-01	2.288798-01	2.099333-02	2.722649-01	2.860998-01	4.198666-03
3.400000-01	3.156161-01	2.161231-01	1.667687-02	2.720829-01	2.701539-01	3.333375-03
3.200000-01	3.154591-01	2.033802-01	1.306719-02	2.719475-01	2.542254-01	2.612438-03
3.000000-01	3.153443-01	1.906477-01	1.008062-02	2.718486-01	2.383096-01	2.0016125-03
2.800000-01	3.152622-01	1.779222-01	7.639684-03	2.717777-01	2.224028-01	1.527937-03
2.600000-01	3.152047-01	1.652016-01	5.672629-03	2.717282-01	2.065020-01	1.134526-03
2.400000-01	3.151657-01	1.524841-01	4.113189-03	2.716946-01	1.906051-01	8.226373-04
2.200000-01	3.151399-01	1.397681-01	2.903362-03	2.716724-01	1.747101-01	5.830724-04
2.000000-01	3.151236-01	1.270524-01	1.978276-03	2.716583-01	1.588155-01	3.853552-04
1.800000-01	3.151137-01	1.143358-01	1.296093-03	2.716497-01	1.429198-01	2.592187-04
1.600000-01	3.151080-01	1.016170-01	8.079478-04	2.716448-01	1.270212-01	1.615096-04
1.400000-01	3.151049-01	8.889383-02	4.729019-04	2.716422-01	1.111173-01	9.458040-05
1.200000-01	3.151034-01	7.616286-02	2.549195-04	2.716409-01	9.520358-02	5.098290-05
1.000000-01	3.151028-01	6.341696-02	1.228442-04	2.716403-01	7.927123-02	2.456684-05
8.000000-02	3.151025-01	5.063941-02	5.038304-05	2.716401-01	6.329926-02	1.307651-05
6.000000-02	3.151024-01	3.778124-02	1.609033-05	2.716401-01	4.722655-02	3.210067-06
4.000000-02	3.151024-01	2.464444-02	3.350261-06	2.716400-01	3.080556-02	6.700523-07
2.000000-02	3.151024-01	5.026679-02	3.464128-07	2.716400-01	1.203335-02	6.926257-08

TABLE 4 (Continued)

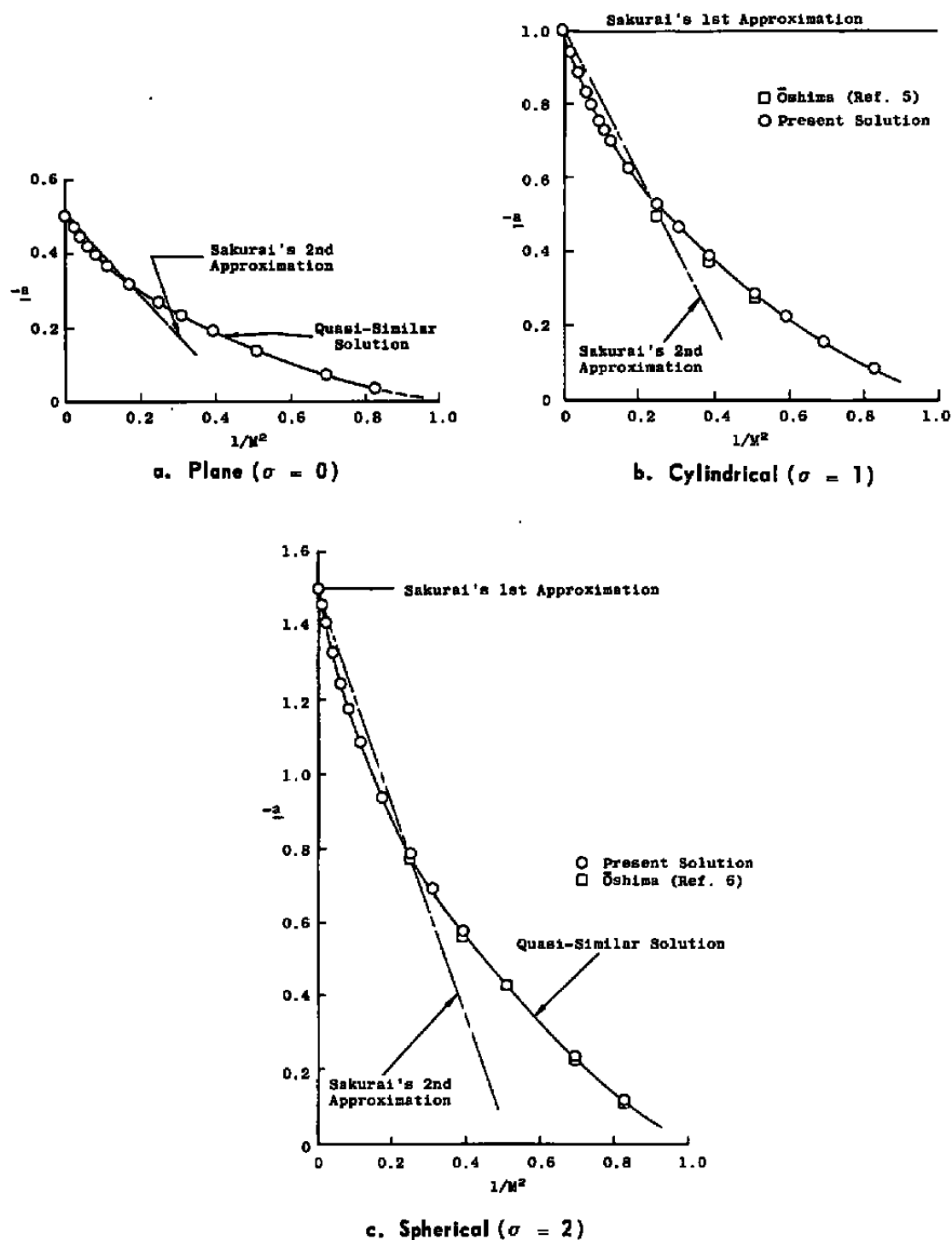
M = 7.0							
x	g	f	h	p/p _R	u/u _R	p/p _R	
1.000000+00	1.163265+00	8.163265-01	5.444444+00	1.000000+00	1.000000+00	1.000000+00	1.000000+00
9.800000-01	9.694179-01	7.835297-01	3.573034+00	8.333592-01	9.598239-01	7.297409-01	7.297409-01
9.600000-01	8.301428-01	7.524467-01	2.988690+00	7.136315-01	9.217472-01	5.489431-01	5.489431-01
9.400000-01	7.275631-01	7.231440-01	2.304992+00	6.254490-01	8.658514-01	4.233652-01	4.233652-01
9.200000-01	6.504555-01	6.956246-01	1.814532+00	5.591635-01	8.321401-01	3.332813-01	3.332813-01
9.000000-01	5.915051-01	6.698351-01	1.452665+00	5.084868-01	8.205480-01	2.668160-01	2.668160-01
8.800000-01	5.457928-01	6.456777-01	1.179029+00	4.691903-01	7.909552-01	2.165559-01	2.165559-01
8.600000-01	5.099221-01	6.230244-01	9.675824-01	4.383541-01	7.632048-01	1.777192-01	1.777192-01
8.400000-01	4.814936-01	6.017302-01	6.010904-01	4.139155-01	7.371194-01	1.471591-01	1.471591-01
8.200000-01	4.597762-01	5.816445-01	6.676236-01	3.943883-01	7.123146-01	1.228615-01	1.228615-01
8.000000-01	4.405077-01	5.626198-01	3.596332-01	3.786827-01	6.892099-01	1.027098-01	1.027098-01
7.800000-01	4.257360-01	5.445158-01	4.707370-01	3.639835-01	6.670319-01	0.846190-01	0.846190-01
7.600000-01	4.137471-01	5.272038-01	3.969522-01	3.556774-01	6.458247-01	7.250959-02	7.250959-02
7.400000-01	4.039913-01	5.105677-01	3.351975-01	3.472908-01	6.254455-01	6.156689-02	6.156689-02
7.200000-01	3.960409-01	4.943044-01	2.831635-01	3.404362-01	6.057679-01	5.200965-02	5.200965-02
7.000000-01	3.895590-01	4.769233-01	2.390906-01	3.348841-01	5.866811-01	4.391461-02	4.391461-02
6.800000-01	3.842774-01	4.637459-01	2.016163-01	3.303437-01	5.680987-01	3.703156-02	3.703156-02
6.600000-01	3.799803-01	4.489042-01	1.696690-01	3.266497-01	5.499077-01	3.116369-02	3.116369-02
6.400000-01	3.764924-01	4.343402-01	1.422932-01	3.236514-01	5.320368-01	2.615286-02	2.615286-02
6.200000-01	3.736706-01	4.200045-01	1.190959-01	3.212256-01	5.145055-01	2.157475-02	2.157475-02
6.000000-01	3.713959-01	4.058551-01	9.920742-02	3.192710-01	4.971725-01	1.822177-02	1.822177-02
5.800000-01	3.695737-01	3.918569-01	8.225365-02	3.177037-01	4.800248-01	1.510781-02	1.510781-02
5.600000-01	3.681200-01	3.779806-01	6.783479-02	3.164540-01	4.630263-01	1.245545-02	1.245545-02
5.400000-01	3.669684-01	3.642017-01	5.561005-02	3.154640-01	4.461471-01	1.021409-02	1.021409-02
5.200000-01	3.660626-01	3.505001-01	4.528603-02	3.146854-01	4.293626-01	8.317841-03	8.317841-03
5.000000-01	3.653560-01	3.368592-01	3.663802-02	3.140780-01	4.126525-01	6.872922-03	6.872922-03
4.800000-01	3.648098-01	3.232656-01	2.935342-02	3.136084-01	3.960004-01	5.391444-03	5.391444-03
4.600000-01	3.643917-01	3.097085-01	2.332669-02	3.132490-01	3.793929-01	4.284494-03	4.284494-03
4.400000-01	3.640752-01	2.961792-01	1.839546-02	3.129769-01	3.626195-01	3.371410-03	3.371410-03
4.200000-01	3.638385-01	2.826709-01	1.428751-02	3.127734-01	3.462718-01	2.624236-03	2.624236-03
4.000000-01	3.636638-01	2.691781-01	1.098837-02	3.126233-01	3.297432-01	2.018272-03	2.018272-03
3.800000-01	3.635368-01	2.556967-01	8.239385-03	3.125141-01	3.132285-01	1.5531724-03	1.5531724-03
3.600000-01	3.634460-01	2.422236-01	6.236087-03	3.124360-01	2.957239-01	1.145404-03	1.145404-03
3.400000-01	3.633823-01	2.287563-01	4.586867-03	3.123813-01	2.802264-01	8.424856-04	8.424856-04
3.200000-01	3.633384-01	2.152929-01	3.311787-03	3.123436-01	2.637338-01	6.082874-04	6.082874-04
3.000000-01	3.633090-01	2.018322-01	2.341531-03	3.123182-01	2.472445-01	4.300771-04	4.300771-04
2.800000-01	3.632897-01	1.883733-01	1.616453-03	3.123016-01	2.307572-01	2.968996-04	2.968996-04
2.600000-01	3.632774-01	1.749153-01	1.085695-03	3.122911-01	2.142713-01	1.994134-04	1.994134-04
2.400000-01	3.632699-01	1.614579-01	7.063912-04	3.122846-01	1.977859-01	1.297380-04	1.297380-04
2.200000-01	3.632655-01	1.480006-01	4.426800-04	3.122808-01	1.813007-01	8.130857-05	8.130857-05
2.000000-01	3.632630-01	1.345431-01	2.653476-04	3.122787-01	1.648153-01	4.873732-05	4.873732-05
1.800000-01	3.632616-01	1.210852-01	1.507011-04	3.122775-01	1.483293-01	2.767973-05	2.767973-05
1.600000-01	3.632610-01	1.076263-01	8.007018-05	3.122770-01	1.318422-01	1.470677-05	1.470677-05
1.400000-01	3.632606-01	9.416582-02	3.909701-05	3.122767-01	1.153531-01	7.181084-05	7.181084-05
1.200000-01	3.632605-01	8.070265-02	1.709314-05	3.122766-01	9.886075-02	3.139556-06	3.139556-06
1.000000-01	3.632604-01	6.723435-02	6.427045-06	3.122765-01	8.236208-02	1.180478-06	1.180478-06
8.000000-02	3.632604-01	5.375515-02	1.943352-06	3.122755-01	6.585006-02	3.569422-07	3.569422-07
6.000000-02	3.632604-01	4.024828-02	4.172733-07	3.122765-01	4.930414-02	7.664204-08	7.664204-08
4.000000-02	3.632603-01	2.664572-02	4.861935-08	3.122764-01	3.264100-02	8.930084-09	8.930084-09
2.000000-02	3.632603-01	1.239560-02	1.554623-09	3.122764-01	1.518461-02	2.855450-10	2.855450-10

TABLE 4 (Continued)

M = 10						
x	g	f	h	P/P _R	u/u _R	p/p _R
1.000000+00	1.163000+00	8.250000-01	5.714286+00	1.000000+00	1.000000+00	1.000000+00
9.800000-01	9.621062-01	7.911610-01	4.026237+00	8.258422-01	9.589831-01	7.045914-01
9.600000-01	8.211155-01	7.594669-01	2.945313+00	7.048201-01	9.205660-01	5.154297-01
9.400000-01	7.200990-01	7.299397-01	2.219620+00	6.181107-01	8.847753-01	3.884334-01
9.200000-01	6.459312-01	7.025138-01	1.712723+00	5.544474-01	8.515318-01	2.997264-01
9.000000-01	5.903851-01	6.770563-01	1.346558+00	5.067683-01	8.206743-01	2.356476-01
8.800000-01	5.481060-01	6.533906-01	1.074374+00	4.704773-01	7.919886-01	1.880155-01
8.600000-01	5.154975-01	6.313187-01	8.670619-01	4.424872-01	7.652348-01	1.517358-01
8.400000-01	4.900784-01	6.106383-01	7.058709-01	4.206682-01	7.401677-01	1.235274-01
8.200000-01	4.700959-01	5.911554-01	5.783550-01	4.035158-01	7.165520-01	1.012121-01
8.000000-01	4.542855-01	5.726905-01	4.760240-01	3.899446-01	6.941703-01	8.330420-02
7.800000-01	4.417171-01	5.550830-01	3.929397-01	3.791563-01	6.728279-01	6.876444-02
7.600000-01	4.316948-01	5.381916-01	3.248509-01	3.705535-01	6.523534-01	5.684890-02
7.400000-01	4.236893-01	5.218939-01	2.686471-01	3.638618-01	6.329986-01	4.701324-02
7.200000-01	4.172921-01	5.060852-01	2.220051-01	3.581906-01	6.134366-01	3.885090-02
7.000000-01	4.121841-01	4.906768-01	1.831551-01	3.538061-01	5.947598-01	3.205215-02
6.800000-01	4.081131-01	4.755940-01	1.507238-01	3.503117-01	5.764776-01	2.637666-02
6.600000-01	4.048778-01	4.607744-01	1.236266-01	3.475346-01	5.585145-01	2.163465-02
6.400000-01	4.023165-01	4.461662-01	1.009921-01	3.453360-01	5.408075-01	1.767378-02
6.200000-01	4.002981-01	4.317265-01	8.211396-02	3.436033-01	5.233048-01	1.436994-02
6.000000-01	3.981164-01	4.174202-01	6.640375-02	3.422458-01	5.059639-01	1.162066-02
5.800000-01	3.974847-01	4.032190-01	5.337340-02	3.411886-01	4.887502-01	9.340346-03
5.600000-01	3.965326-01	3.890995-01	4.261051-02	3.403713-01	4.716357-01	7.456839-03
5.400000-01	3.958024-01	3.750432-01	3.376462-02	3.397445-01	4.545978-01	5.908808-03
5.200000-01	3.952473-01	3.610353-01	2.653823-02	3.392681-01	4.376186-01	4.643841-03
5.000000-01	3.948296-01	3.470642-01	2.066840-02	3.389095-01	4.206838-01	3.616969-03
4.800000-01	3.945185-01	3.331205-01	1.594023-02	3.386425-01	4.037824-01	2.789540-03
4.600000-01	3.942896-01	3.191973-01	1.216179-02	3.384460-01	3.869058-01	2.128313-03
4.400000-01	3.941233-01	3.052889-01	9.169928-03	3.383033-01	3.700472-01	1.604737-03
4.200000-01	3.940043-01	2.913913-01	6.824902-03	3.382011-01	3.532016-01	1.194358-03
4.000000-01	3.939203-01	2.775013-01	5.007468-03	3.381290-01	3.363652-01	8.763069-04
3.800000-01	3.938622-01	2.636167-01	3.616414-03	3.380791-01	3.195354-01	6.328725-04
3.600000-01	3.938227-01	2.497356-01	2.566387-03	3.380452-01	3.027099-01	4.491177-04
3.400000-01	3.937963-01	2.358570-01	1.785952-03	3.380226-01	2.858873-01	3.125416-04
3.200000-01	3.937792-01	2.219799-01	1.215861-03	3.380079-01	2.690666-01	2.127757-04
3.000000-01	3.937684-01	2.081037-01	8.074740-04	3.379986-01	2.522470-01	1.413080-04
2.800000-01	3.937618-01	1.942280-01	5.213310-04	3.379929-01	2.354279-01	9.123292-05
2.600000-01	3.937578-01	1.803525-01	3.258507-04	3.379895-01	2.186091-01	5.702387-05
2.400000-01	3.937556-01	1.664769-01	1.961496-04	3.379876-01	2.017902-01	3.432618-05
2.200000-01	3.937543-01	1.526010-01	1.129731-04	3.379865-01	1.849709-01	1.977029-05
2.000000-01	3.937537-01	1.387246-01	6.173383-05	3.379860-01	1.681511-01	1.080342-05
1.800000-01	3.937534-01	1.248474-01	3.165323-05	3.379857-01	1.513302-01	5.539316-06
1.600000-01	3.937532-01	1.109688-01	1.500186-05	3.379856-01	1.345077-01	2.625325-06
1.400000-01	3.937531-01	9.708815-02	6.435503-06	3.379855-01	1.176826-01	1.126213-06
1.200000-01	3.937531-01	8.320381-02	2.423248-06	3.379855-01	1.008531-01	4.240684-07
1.000000-01	3.937531-01	6.931259-02	7.638326-07	3.379855-01	8.401526-02	1.336707-07
8.000000-02	3.937530-01	5.540677-02	1.862689-07	3.379854-01	6.715972-02	3.259708-08
6.000000-02	3.937530-01	4.146389-02	3.039227-08	3.379854-01	5.025926-02	5.318648-09
4.000000-02	3.937529-01	2.739285-02	2.439143-09	3.379854-01	3.320345-02	4.268500-10
2.000000-02	3.937529-01	1.245450-02	4.867287-11	3.379853-01	1.509636-02	8.517752-12

TABLE 4 (Concluded)

M = ∞						
x	g	f	h	p/p _R	u/u _R	P/P _R
1.000000+00	1.166667+00	8.333333-01	0.000000+00	1.000000+00	1.000000+00	1.000000+00
0.000000-01	9.549035-01	7.985383-01	4.065940+00	3.184940-01	9.548460-01	6.775567-01
0.600000-01	0.1020-01	7.564040-01	2.384840+00	6.9694+6-01	8.1900-01	4.801007-01
9.400000-01	7.145237-01	7.08695-01	2.119730+00	6.124489-01	8.044434-01	3.50400-01
9.200000-01	6.439796-01	7.097626-01	1.037763+00	5.519625-01	8.517151-01	2.303074-01
0.000000-01	5.925292-01	6.849411-01	1.232157+00	0.1108-01	8.218093-01	1.053562-01
0.800000-01	3.558213-01	6.618314-01	9.637829-01	4.747040-01	7.0419-01	1.506305-01
8.600000-01	3.246999-01	6.404077-01	7.624758-01	4.497428-01	7.585472-01	1.27079-01
8.400000-01	3.024332-01	6.204605-01	6.001837-01	4.306571-01	7.445526-01	1.03130-01
8.200000-01	4.852670-01	6.016063-01	4.876451-01	4.100032-01	7.219276-01	0.100752-02
0.000000-01	4.710002-01	5.826914-01	3.926871-01	4.004030-01	7.004297-01	0.044760-02
7.800000-01	4.615933-01	5.660417-01	3.165301-01	3.956514-01	6.798500-01	0.277316-02
7.600000-01	4.535117-01	5.500106-01	2.500000-01	3.887244-01	6.600127-01	4.256388-02
7.400000-01	4.472064-01	5.339762-01	2.007697-01	3.833198-01	6.407715-01	0.239495-02
7.200000-01	4.422920-01	5.183380-01	1.654454-01	3.791074-01	6.220056-01	0.757423-02
7.000000-01	4.384704-01	5.030136-01	1.326143-01	3.758318-01	6.036163-01	0.210239-02
6.800000-01	4.355089-01	4.879362-01	1.058789-01	3.732934-01	5.855234-01	1.764649-02
6.600000-01	4.332241-01	4.730515-01	8.413226-02	3.713350-01	5.676622-01	1.402204-02
6.400000-01	4.314709-01	4.583172-01	6.648464-02	3.698022-01	5.499806-01	1.104077-02
6.200000-01	4.301342-01	4.436976-01	5.221199-02	3.686865-01	5.324374-01	0.701999-03
6.000000-01	4.291222-01	4.291664-01	4.071920-02	3.678191-01	5.149997-01	0.783523-03
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Fig. 1 Decay Coefficient for Blast Waves in Air ($\gamma = 1.4$)

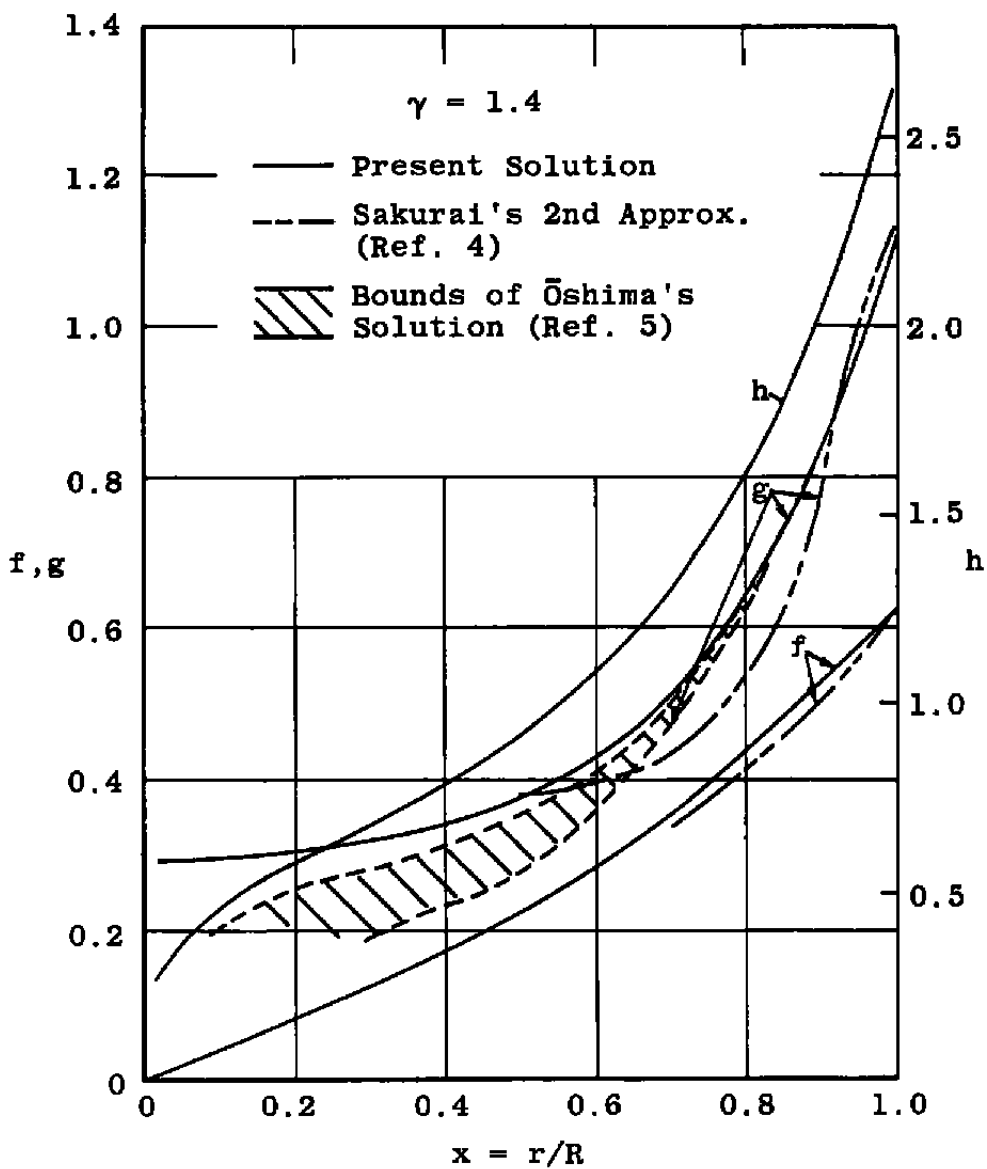
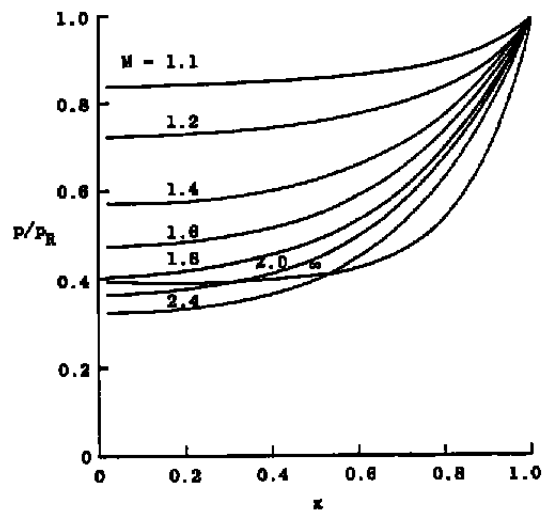
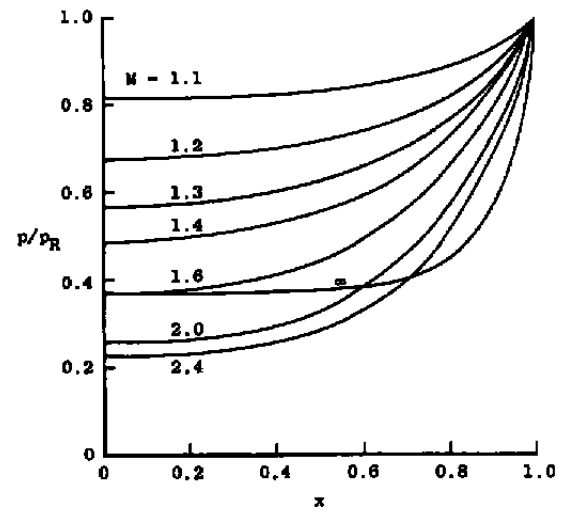
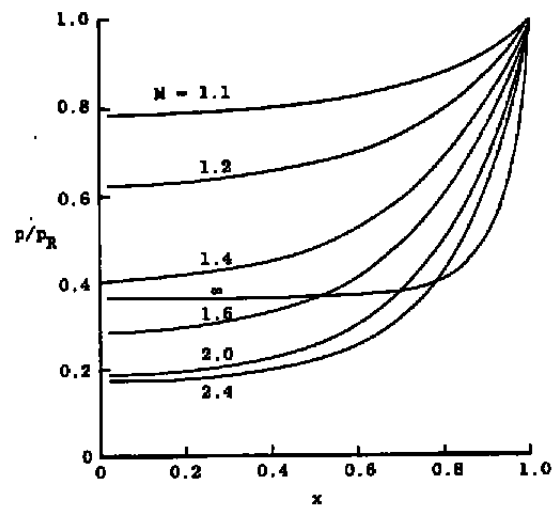
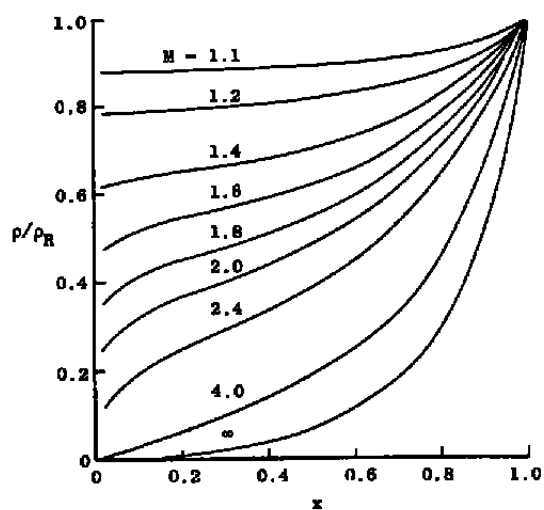
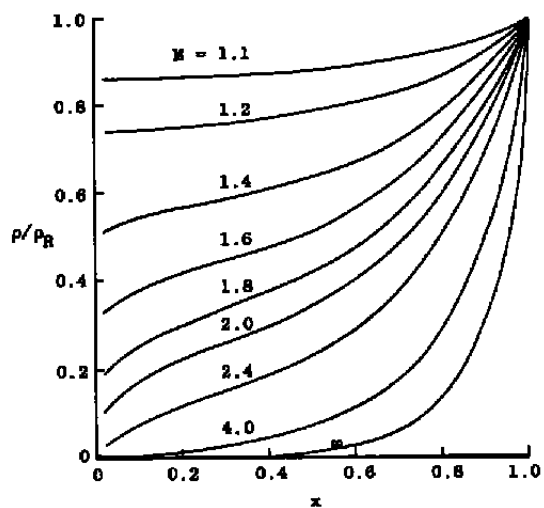
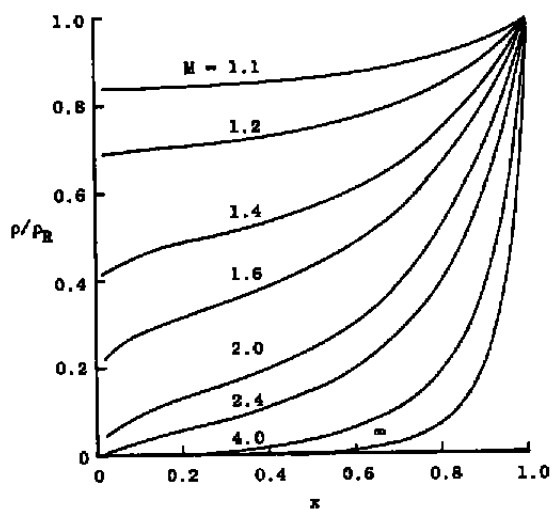


Fig. 2 The Functions f , g , and h within a Cylindrical Blast Wave for $M = 2.0$

a. Plane ($\sigma = 0$)b. Cylindrical ($\sigma = 1$)c. Spherical ($\sigma = 2$)Fig. 3 Pressure Distributions within Blast Waves
in Air ($\gamma = 1.4$)

a. Plane ($\sigma = 0$)b. Cylindrical ($\sigma = 1$)c. Spherical ($\sigma = 2$)Fig. 4 Density Distributions within Blast Waves
in Air ($\gamma = 1.4$)

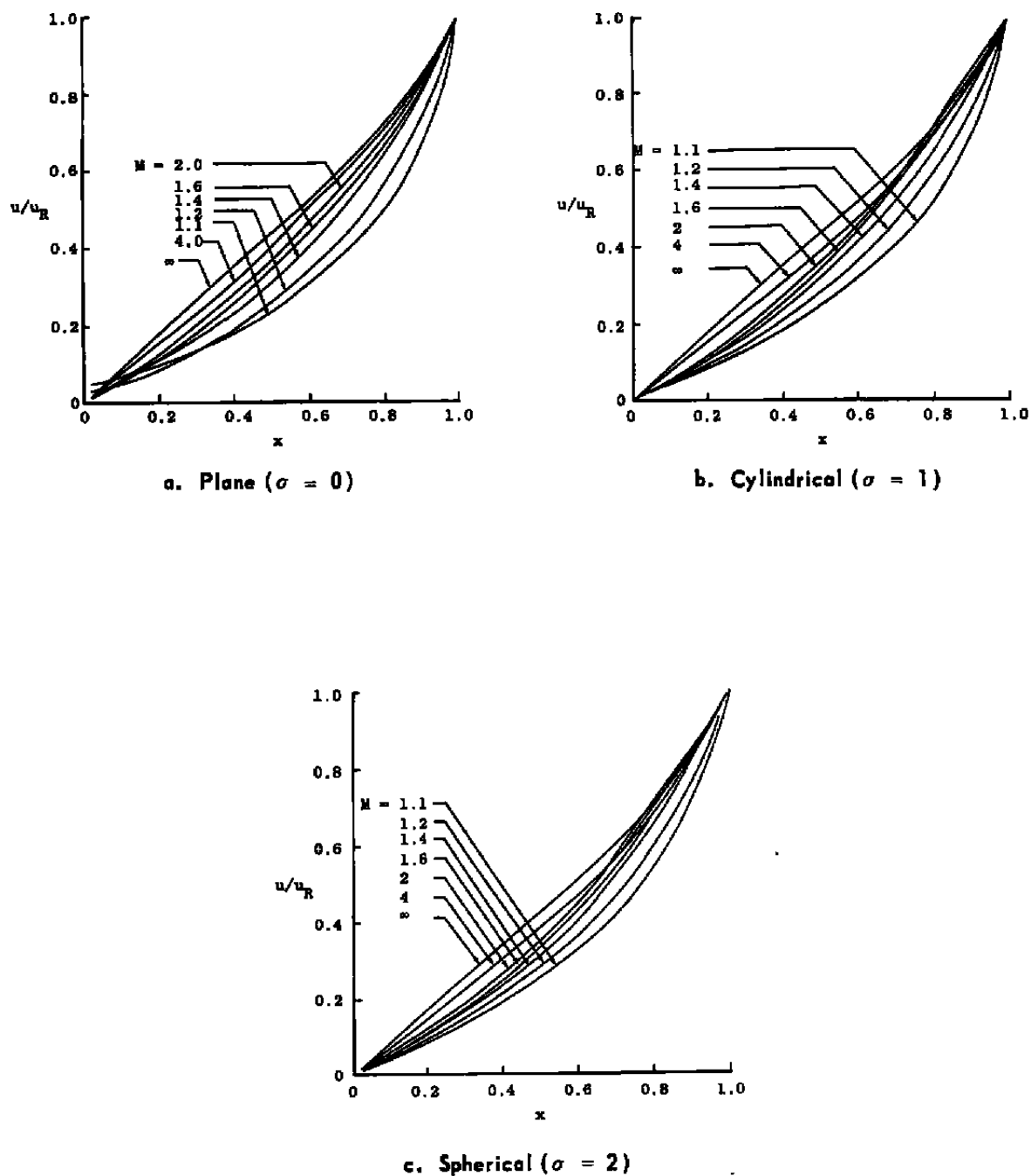
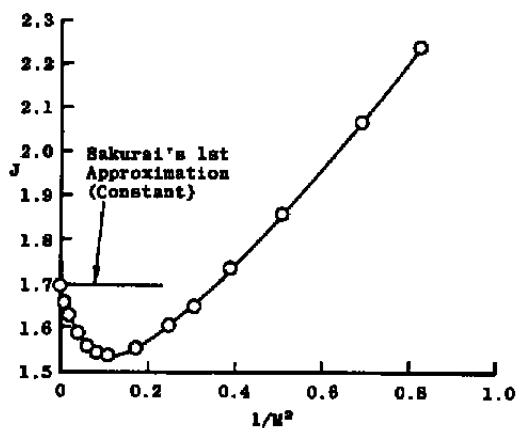
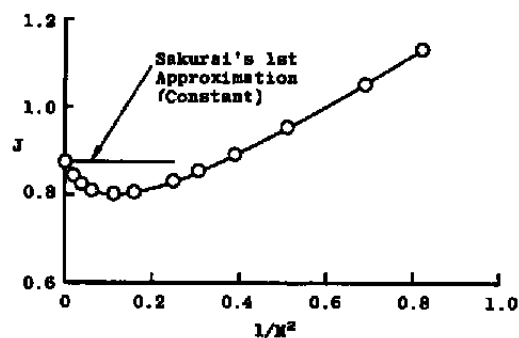


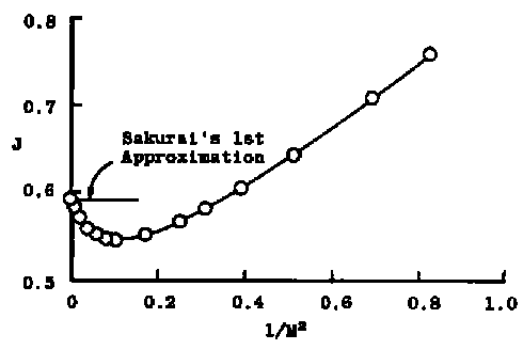
Fig. 5 Velocity Distributions within Blast Waves in Air ($\gamma = 1.4$)



a. Plane ($\sigma = 0$)



b. Cylindrical ($\sigma = 1$)



c. Spherical ($\sigma = 2$)

Fig. 6 The Function J for Blast Waves in Air ($\gamma = 1.4$)

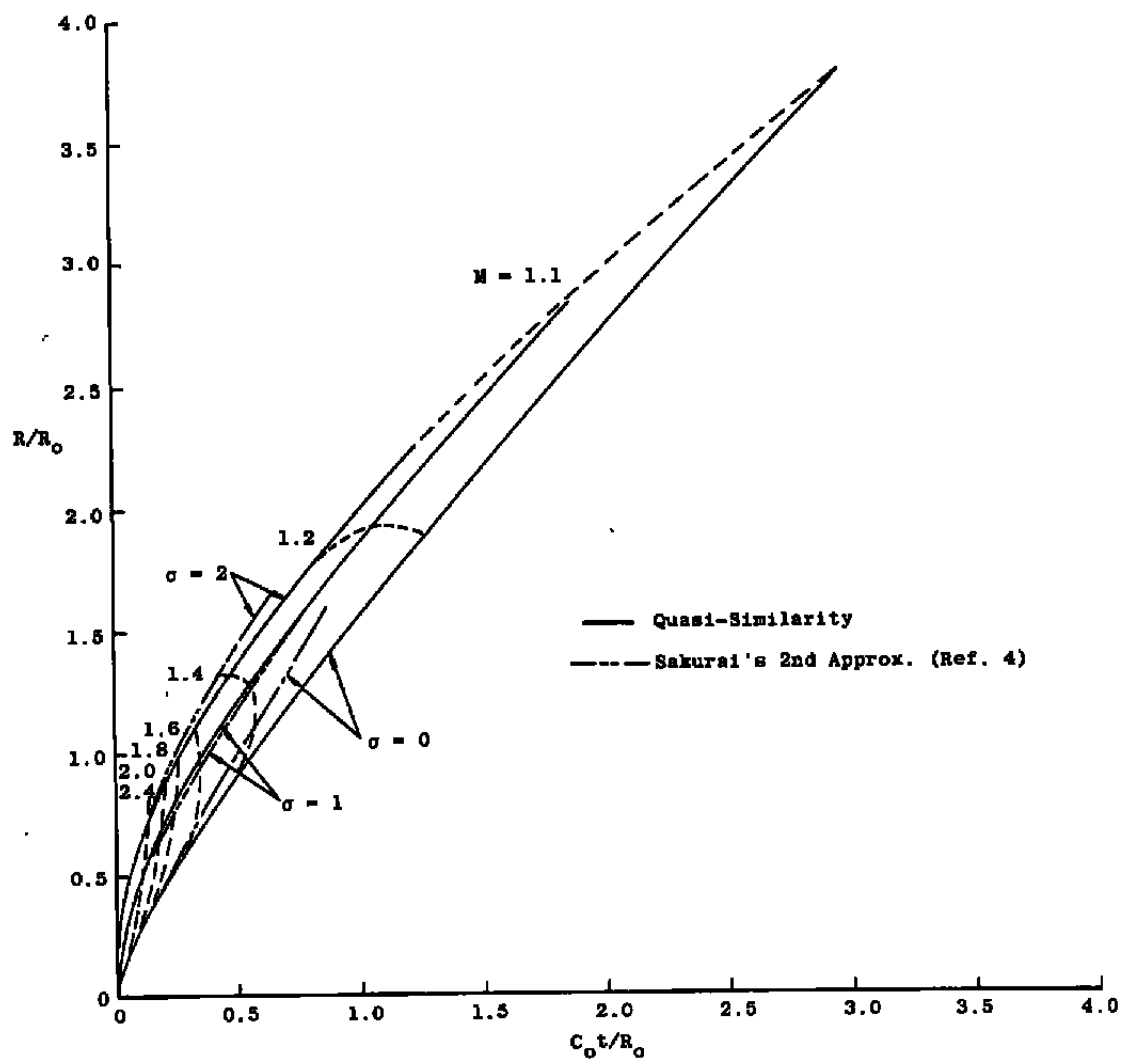


Fig. 7 Propagation of Blast Waves in Air ($\gamma = 1.4$)

AEDC-TN-61-157

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Arnold Engineering Development Center, ARO, Inc.,
Arnold Air Force Station, Tennessee
PLANE, CYLINDRICAL, AND SPHERICAL BLAST WAVES
BASED UPON OSHIMA'S QUASI-SIMILARITY MODEL by
Clark H. Lewis, December 1961. 67 pp. (ARO Project
No. 300149) (OAR Program Area 806A, Project 8951,
Task 89103) (AEDC-TN-61-157) (Contract No. AF 40(600)-
800 S/A 24(61-73)).
Unclassified

6 references

Numerical solutions are given for plane, cylindrical, and spherical blast waves in air based upon Oshima's quasi-similarity model (University of Tokyo, Report No. 358, July 1960, pp. 137-193). New solutions are given for plane and spherical waves in addition to the cylindrical solutions given previously by Oshima. The results for cylindrical flow do not agree with Oshima's results near the core of the explosion. These differences are discussed, and the precision of the present numerical solution is given. The results provide new data for investigating blast waves or the blast-hypersonic analogy.

1. Blast analogy
2. Hypersonic flow--
Mathematical analysis
3. Blast waves
1. Lewis, Clark H.

UNCLASSIFIED

<p>AEDC-TN-61-157</p> <p>Arnold Engineering Development Center, ARO, Inc., Arnold Air Force Station, Tennessee</p> <p>PLANE, CYLINDRICAL, AND SPHERICAL BLAST WAVES BASED UPON ŌSHIMA'S QUASI-SIMILARITY MODEL by Clark H. Lewis, December 1961. 67 pp. (ARO Project No. 300149) (OAR Program Area 806A, Project 8951, Task 89103) (AEDC-TN-61-157) (Contract No. AF 40(600)- 800 S/A 24(61-73)). Unclassified</p> <p>6 references</p> <p>Numerical solutions are given for plane, cylindrical, and spherical blast waves in air based upon Ōshima's quasi- similarity model (University of Tokyo, Report No. 358, July 1960, pp. 137-193). New solutions are given for plane and spherical waves in addition to the cylindrical solutions given previously by Ōshima. The results for cylindrical flow do not agree with Ōshima's results near the core of the explosion. These differences are discussed, and the precision of the present numerical solution is given. The results provide new data for investigating blast waves or the blast-hypersonic analogy.</p>	<p>UNCLASSIFIED</p> <ol style="list-style-type: none"> 1. Blast analogy 2. Hypersonic flow-- Mathematical analysis 3. Blast waves <p>1. Lewis, Clark H.</p> <p>UNCLASSIFIED</p>	<p>AEDC-TN-61-157</p> <p>Arnold Engineering Development Center, ARO, Inc., Arnold Air Force Station, Tennessee</p> <p>PLANE, CYLINDRICAL, AND SPHERICAL BLAST WAVES BASED UPON ŌSHIMA'S QUASI-SIMILARITY MODEL by Clark H. Lewis, December 1961. 67 pp. (ARO Project No. 300149) (OAR Program Area 806A, Project 8951, Task 89103) (AEDC-TN-61-157) (Contract No. AF 40(600)- 800 S/A 24(61-73)). Unclassified</p> <p>6 references</p> <p>Numerical solutions are given for plane, cylindrical, and spherical blast waves in air based upon Ōshima's quasi- similarity model (University of Tokyo, Report No. 358, July 1960, pp. 137-193). New solutions are given for plane and spherical waves in addition to the cylindrical solutions given previously by Ōshima. The results for cylindrical flow do not agree with Ōshima's results near the core of the explosion. These differences are discussed, and the precision of the present numerical solution is given. The results provide new data for investigating blast waves or the blast-hypersonic analogy.</p>	<p>UNCLASSIFIED</p> <ol style="list-style-type: none"> 1. Blast analogy 2. Hypersonic flow-- Mathematical analysis 3. Blast waves <p>1. Lewis, Clark H.</p> <p>UNCLASSIFIED</p>
<p>AEDC-TN-61-157</p> <p>Arnold Engineering Development Center, ARO, Inc., Arnold Air Force Station, Tennessee</p> <p>PLANE, CYLINDRICAL, AND SPHERICAL BLAST WAVES BASED UPON ŌSHIMA'S QUASI-SIMILARITY MODEL by Clark H. Lewis, December 1961. 67 pp. (ARO Project No. 300149) (OAR Program Area 806A, Project 8951, Task 89103) (AEDC-TN-61-157) (Contract No. AF 40(600)- 800 S/A 24(61-73)). Unclassified</p> <p>6 references</p> <p>Numerical solutions are given for plane, cylindrical, and spherical blast waves in air based upon Ōshima's quasi- similarity model (University of Tokyo, Report No. 358, July 1960, pp. 137-193). New solutions are given for plane and spherical waves in addition to the cylindrical solutions given previously by Ōshima. The results for cylindrical flow do not agree with Ōshima's results near the core of the explosion. These differences are discussed, and the precision of the present numerical solution is given. The results provide new data for investigating blast waves or the blast-hypersonic analogy.</p>	<p>UNCLASSIFIED</p> <ol style="list-style-type: none"> 1. Blast analogy 2. Hypersonic flow-- Mathematical analysis 3. Blast waves <p>1. Lewis, Clark H.</p> <p>UNCLASSIFIED</p>	<p>AEDC-TN-61-157</p> <p>Arnold Engineering Development Center, ARO, Inc., Arnold Air Force Station, Tennessee</p> <p>PLANE, CYLINDRICAL, AND SPHERICAL BLAST WAVES BASED UPON ŌSHIMA'S QUASI-SIMILARITY MODEL by Clark H. Lewis, December 1961. 67 pp. (ARO Project No. 300149) (OAR Program Area 806A, Project 8951, Task 89103) (AEDC-TN-61-157) (Contract No. AF 40(600)- 800 S/A 24(61-73)). Unclassified</p> <p>6 references</p> <p>Numerical solutions are given for plane, cylindrical, and spherical blast waves in air based upon Ōshima's quasi- similarity model (University of Tokyo, Report No. 358, July 1960, pp. 137-193). New solutions are given for plane and spherical waves in addition to the cylindrical solutions given previously by Ōshima. The results for cylindrical flow do not agree with Ōshima's results near the core of the explosion. These differences are discussed, and the precision of the present numerical solution is given. The results provide new data for investigating blast waves or the blast-hypersonic analogy.</p>	<p>UNCLASSIFIED</p> <ol style="list-style-type: none"> 1. Blast analogy 2. Hypersonic flow-- Mathematical analysis 3. Blast waves <p>1. Lewis, Clark H.</p> <p>UNCLASSIFIED</p>